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Has surgical treatme

**RECAP**

HAS SURGICAL TREATMENT  
LESSENED THE  
MORTALITY FROM APPENDICITIS

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# Has Surgical Treatment Lessened THE Mortality from Appendicitis?

MOTTO:  
"Calyatatantravid."

BY  
FRANK P. VALE, M. D.,  
WASHINGTON, D. C.

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THE Trustees of the Fiske Fund, at the annual meeting of the Rhode Island Medical Society, held at Providence, May 28, 1908, announced that they had awarded a premium of two hundred (\$200) to an essay on "Has Surgical Treatment Lessened the Mortality from Appendicitis?" bearing the motto:

"Calyatatantravid."

The author was found to be FRANK P. VALE, M. D., of Washington, D. C.

DR. FRANK B. FULLER, Providence,

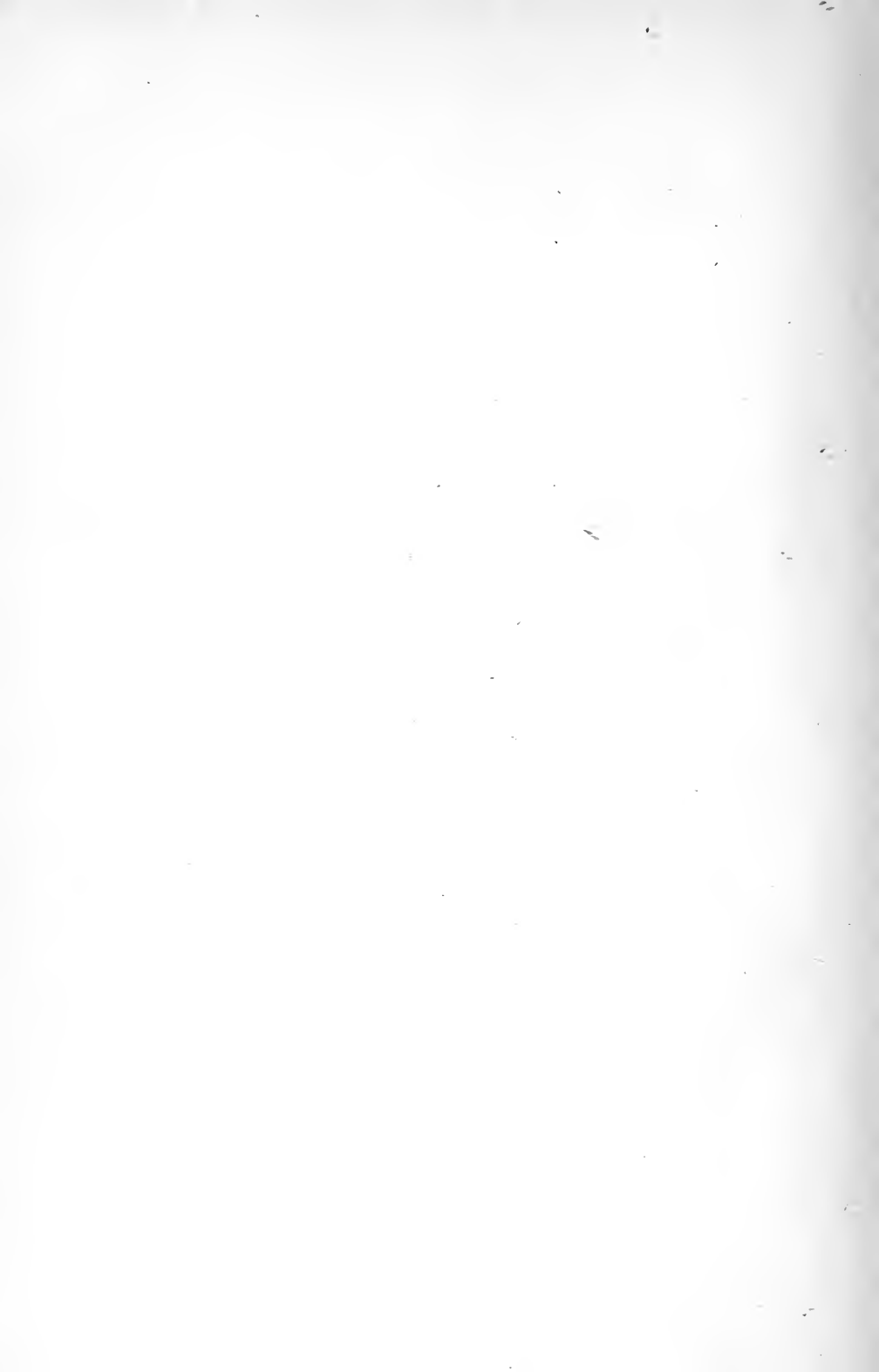
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## HAS SURGICAL TREATMENT LESSENED THE MORTALITY FROM APPENDICITIS?

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### INTRODUCTORY.

IN discussing with Dr. . . . his essay on . . . , which was awarded the Fiske prize for . . . , he called my attention to the above theme propounded by the trustees of the prize for 1908. The stamp of approval given by custom is such, one is almost astonished at the question; it seemed so difficult to answer with indubitable evidence — however great one's confidence in the surgical treatment of appendicitis — I dismissed it from my mind; it recurred, nevertheless, and some of the associated ideas brought the desire for an answer, if one is now possible.

A large part of the operating seen in our surgical clinics is on the vermiform appendix; this impression is abundantly confirmed by the compilations I have made from available hospital reports, showing that in the United States, since the year 1890, of 239,986 major and minor operations performed in 23 hospitals, no less than 26,044, or 10.8%, were on account of this useless appendage of the digestive tract. It is difficult to conceive that all this work represents misdirected energy, from the standpoint of mortality; yet some believe

there is much unnecessary operating in every department of surgery, that in a way the ability to operate recently acquired through anesthesia and asepsis, has conferred a license to operate; is it possible we are now on the crest of a wave of enthusiasm for operative surgery, which will in time subside to a more stable level? Reflection reminds us that the history of the advance of medicine has been over enthusiasm in first one direction and then another, followed by the inevitable reaction. We please our vanity with the expression "modern," as did our predecessors of one hundred years ago in bleeding for every disease, and those of fifty years later in transfusing almost as indiscriminately.

We need surgeons and true specialists to blaze new trails. Restriction of one's field of endeavor makes one expert, but may narrow the horizon: "*La tendance à la spécialisation s'est accrue, dans ces dernières années, d'une manière inquiétant pour la sécurité du public, et le titre de spécialiste, loin de consacrer une supériorité, est arrivé à n'être bien souvent qu'un brevet d'ignorance. Combien de docteurs en effect, en renonçant à la médecine générale, ne cherchent autre chose dans une spécialité, qu'un champ d'études plus facile et mieux rémunérée.*" (Doyen [2].) Doyen and other surgeons, one a teacher of surgical pathology (3), believe that among the many and increasing requirements, every surgeon in the future will be his own pathologist: may not every physician, i. e.,

every pathologist, be in large part his own surgeon ? Certainly if operative work continues to increase as it has in the past twenty-five years, and if, for example, every case of appendicitis is to be operated as soon as the diagnosis is established, with a continued increase in this disease,\* such would in time be a natural result. It is immaterial whether surgery absorbs medicine or vice versa, their divorce of past centuries is being nullified, as shown for instance in the latest sub-specialty, the "Operating neurologist" (1). The subject before us, the treatment of appendicitis in certain of its aspects, illustrates an advantage which would accrue from the more perfect union of physician and surgeon : the latter recommends immediate or early operation because of its relative simplicity and avoidance of dreaded complications with which his art is unable to cope ; the physician rejects immediate and routine operation because of the many recoveries in his experience under medical care — in too long delaying early operation he may, however, evidence lack of appreciation of the surgical opportunity. It has been said that in this day every physician must think surgically, but it is equally obvious every surgeon should be first and foremost a good physician. There must be found some point of vantage from which medicine can be viewed as a whole ; if specialism develops without such means

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\* Toft's post-mortem findings, every third subject showing evidence of present or past inflammation in the vermiform appendix, with actual ulceration in 5%, indicates a possible limit. Quoted by Fitz.

for its assimilation one hundred years from now a corps of specialists will hover over each patient. The literature of medicine is rapidly becoming difficult to digest in any particular branch, not to speak of its entirety. Since 1896 there are indexed in the Catalogue of the Surgeon General's Library at Washington 295 monographs, including graduating theses, and 3,616 journal articles on the subject of perityphlitis or appendicitis, as compared with 20 monographs and 200 journal articles before that date.

In 52 hospitals in this country with a total of 1,075,860 patients from 1890 to 1907, the proportion of cases of appendicitis was 1 in 47 before 1900 and 1 in 11 since (Tables IV and V); in 5 European hospitals with a total of 776,069 patients for the same period the proportion was 1 in 147 and 1 in 68; in 7 European hospitals with a total of 1,301,878 patients from 1870 to 1890 the proportion of cases of perityphlitis was 1 in 678 (Table I). Table VII shows the increase in mortality from appendicitis and decrease in that from peritonitis in this country, England and Wales; the increase in the former in Paris; in Uruguay the increase in the mortality of appendicitis is accompanied by a slight increase in that from peritonitis, but a marked decrease from diseases of the stomach. Villaret (4) has compiled statistics from the army records of the War Department at Berlin, from which he concludes the increase in appendicitis is only apparent and due to our increased diagnostic ability which now correctly traces

various abdominal lesions and symptoms to the vermiform appendix; cases formerly described under the head of affections of the liver, peritonitis, gastralgia, ulcer of the stomach, gastric hemorrhage and chronic gastric catarrh were found to have decreased, per thousand, from 4.27 in 1873-4 to .95 in 1900-1, with a corresponding increase in cases of perityphlitis from .52 to 1.73 — that is in twenty-seven years a decrease of 79% in the first group, balancing an increase of 70% in cases of perityphlitis.

As having a possible bearing on this subject I was much interested to learn recently from Dr. . . . , who has devoted the past four years to the study of psychotherapy in various European clinics, the last year of which was in Paris at the Salpêtrière with M. Déjerine, that the successors of Charcot now know the innumerable symptoms ascribed to hysteria, concerning which so many tomes have been written, were simply the result of their own, the physician's, suggestion. Is it possible there is a psychological side also to organic disease? Heppe (5) has ascertained that the physicians of Berlin regard appendicitis more and more as a "Volkskrankheit," and would no longer feed lay curiosity with medical information.\* A universal desire for knowledge of the psychological side of medicine is just being awakened; in its broadest sense it is the study of the microcosm — may here lie the van-

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\* See an amusing squib by "Spectator," a Paris correspondent in the Boston Medical and Surgical Journal, March 19, 1908, p. 397.

tage-ground from which will spring a new era, unifying medicine and supplementing the tedious study of minutiae in anatomical and physiological investigation?

### HISTORICAL.

NEARLY a quarter of a century has elapsed since the paper read by Dr. Reginald Fitz, of Boston, before the Association of American Physicians in 1886 (6), inaugurated the present operative era in the treatment of perityphlitis, or appendicitis as he termed it to better indicate what he regarded the actual seat of the disease — an idea which had been growing among medical men since 1882 (7), but crystalized and emphasized for the first time in this paper: It is a notable example of a physician's ability to indicate possible lines for surgical progress.

In 1867 Dr. Willard Parker (8), one of the leading surgeons of New York, in a paper entitled "An operation for abscess of the appendix vermiformis caeci," advocated timely incision, neither too early nor too late — "Not before adhesions had fully formed nor after a short period before the maximum formation of pus had been reached, that is from the fifth to the twelfth day." He noted the obscurity in which the pathology of the vermiform appendix was involved, the absence of its mention in ancient literature, and the fact that often only at autopsy is this cause of death recognized — gangrene and perforation of the appendix

producing, especially in children a rapidly fatal result, with violent symptoms of peritonitis ; in adults, however, "abscess of the appendix" being slower in its progress was easier to recognize — pain soon circumscribing itself in the right iliac fossa, with a small tumor in that region ; if an abscess was maturing the external opening would tend to make it point in a safe direction — even in the absence of pus a free incision relieved tension without prejudicing the patient's safety ; if no adhesions formed to wall off the abscess, death resulted in two to five days — obviously in these cases surgery can be of no avail."

Dr. Parker however had been in part anticipated in this recommendation as to surgical treatment about twenty years by an English surgeon. At a session of the Medical Society of London, Sept. 25, 1848, its president, Mr. Hancock, reported a case of "Disease of the appendix caeci cured by operation" which he believed was the first one of its kind : abscess of the abdomen connected with the caecum or large intestine, and attended with fluctuation had from time to time been opened, but this unequivocal sign should not be awaited, as the patient might die before the disease progressed thus far. He had simply suspected mischief about the caecum, or its appendix, and incised a cord like induration close to the spine of the ileum ; at the end of three weeks a faecal concretion was discharged which from its size he imagined had been impacted in, and escaped by ulceration from, the appendix vermi-

formis. "In some remarks upon this case Mr. Hancock referred to the frequency of operations on the abdomen of late, particularly in case of ovarian disease, many of which had been successful. He should not argue or draw conclusions from a solitary case, but he thought it, at all events, would justify us in having recourse to such a procedure in cases of peritonitis, when all other means had failed, and without which death was inevitable." Dr. Copeland said he had written on the subject sixteen years before; and he complimented the author on the only successful case he had ever heard of (9). Mr. Dendy remarked that in doubtful cases the exploring needle should be used, a practice advocated and followed forty years later in in this country by Dr. William T. Bull.

The earliest reports of the disease,\* aside from isolated references, are from the wards of the Hôtel-Dieu, Paris, first from the medical side and afterwards from Dupuytren's service. It was probably, in part, the passive attitude of this leading spirit in the surgical world toward these "engorgemens inflammatoire dans la fosse iliaque droite" which exercised a deterrent effect on operative intervention for the next half century. Five of Dupuytren's six cases recovered through spontaneous rupture of the abscess — one emptying

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\* This statement must be amended with great credit to Mellier for publication the same year (1827) of seven cases, all terminating fatally, with autopsy on each case showing a gangrenous vermiform appendix which was regarded as the starting point of the pathological changes in the abdomen.—(Jour. Gén. de Méd. 1827 xxxix de la 11e Série.)



into the bowel, which he regarded as rather a favorable circumstance (11); of the fifteen cases of Husson and Dance only ten can be accepted, and one of these is also reported by Dupuytren (their seventh case is his first) — leaving nine cases with eight recoveries, four with spontaneous rupture of an abscess, and four without external evidence of suppuration, a total of thirteen recoveries and two deaths.

One of the most important papers of this early period is by Grisolle (13), also at one time Chef de Clinique at the Hôtel Dieu; he advised, however, incision of the abscess as soon as there was fluctuation, and did not regard it as prudent “*de demurer simple spectateur des efforts de la nature . . . . c'est ce qu'avaient très bien compris les chirurgiens du dernier siècle qui, dès qu'ils avaient soupçonné la présence du pus, étaient vivement préoccupés jusqu'à ce qu'ils eussent évacuée ce produit morbide.*” His prognostic figures — 20 deaths in 73 cases — are quoted as late as 1883 (14). “*En générale, le pronostic n'acquiert de la gravité que lorsque le phlegmon a passé à l'état de suppuration. Il faut néanmoins se rappeler ces cas rares, il est vrai, où l'on voit la phlegmasie du tissu cellulaire s'étendre rapidement au péritoine, avant que le pus soit formé ou lorsqu'il n'est encore qu'infiltré.*”

Though Rokitsansky (15) had studied the anatomical side of the subject Puchelt (16), professor of medicine at Heidelberg, was the first German to take up its clinical aspects, suggesting the term perityphlitis. He

described also a primary inflammation of the vermiform appendix, resulting in ulceration, perforation and gangrene of the appendix and of the intestines and neighboring muscles, with the formation of an external stercoral abscess or the escape of fecal matter into the peritoneal cavity.

The first book appeared in 1846: "Die durch Kothsteine bedingte Durchbohrung des Wurmfortsatzes, die häufig verkannte Ursache einer gefährlichen Peritonitis, und deren Behandlung mit Opium: von Adolph Volz." Herein we find a list of thirty-nine fatal cases of peritonitis, most of them treated with calomel and other laxatives, ten of them the author's observations, and the others from the literature, all of which upon post mortem examination revealed pathological changes in the vermiform appendix; and in contrast a further list of fourteen recoveries, with the exception of two, all being treated with large doses of opium; but four of them are eliminated by the author, as of doubtful origin in the appendix. Thus the monograph sets forth the value of opium in peritonitis following perforative appendicitis; only one previous case had been reported, in France, by Petrequin (17); its use originated with Graves of Dublin about 1824, who successfully treated two cases of peritonitis following paracentesis; and was later employed by his friend Stokes (18), in one of whose patients the peritonitis entirely subsided with the opium treatment, only to relapse on the administration of a mild laxative with a fatal re-

sult, post-mortem examination showing a perforated caecum with the intestines in the right iliac fossa agglutinated. The part played by opium since then, and the sentiment gradually raised against it, is well known.

In 176 fatal cases of perforating appendicitis Fitz found in 60 death had occurred in the first five days, consequently the earliest day set by Parker for incision was too late to afford the possibility of relief in more than one-fourth of all, and "if the indications for operation justified the election of a day as early as the fifth, they still more justified the choice of the third day," before the encysted or circumscribed peritonitis became general and death inevitable. His conclusions were that the early recognition of perforative appendicitis, in most cases comparatively easy, was of vital importance: urgent symptoms should be met by immediate laparotomy and extirpation of the perforated appendix after recovery from the accompanying shock. If delay was warranted, the resulting abscess should be incised when evident, usually by the third day. He made no attempt to consider in his paper the process until there was evidence perforation had taken place, because of the obscurity of the signs of the incipency of the inflammation. By the comparison of the symptoms of 209 cases of perityphlitis with 257 cases of perforative appendicitis, he had shown them to be simply different aspects of one and the same inflammatory process, beginning in the appendix.

American surgeons soon began to record their experiences. Morten's (19) seems to have been the first; he saw the patient two days after symptoms of perforation; the unsuccessful laparotomy was recommended as offering the best hope of recovery. Sand's (20) first successful case was not an appendicectomy — neither the appendix nor the lips of the perforation at its base, from which two fecal concretions escaped, were gangrenous; the edges of the perforation were simply trimmed and brought together with three silk sutures. The first series of six cases was reported by Weir (21) — all fatal. Then followed McBurney's (22) more encouraging series of 11 cases with only one death, all operated within the first 48 hours; and two years later (23) his additional 13 cases without a death, making 24 with one death to January, 1891. In McBurney's second paper indications for early operation was clearly stated, and so well stated practically nothing essential has been added since. He would not operate on all cases on the first day to anticipate danger. In the previous year he had seen himself 13 cases so mild no one would have thought of recommending an operation; if tenderness was not increasing, temperature not over 100 and pulse but little accelerated, recovery could be anticipated; but by the end of 36 hours from the beginning of the attack — often earlier with the case progressing badly — if the symptoms were becoming worse he would operate.

The pendulum swung to the extreme with the claim of some surgeons that the only proper treatment of appendicitis is immediate excision of the appendix; this Fitz (24) thought was going too far. In 1900 he reported (25) the cases he had seen in the previous four years, 72 with 19 deaths, the largest series recorded up to that time, about half of which had been operated with a mortality of 40%, and a mortality of 11% for those not operated. Deaver (26) was one of the first to recommend immediate operation, and has since been one of the strongest supporters of this contention. In a discussion of a paper by Richardson read before the Association of American Surgeons in 1899 (27) he urged operation on all patients except those in collapse and with active general peritonitis. The following were some of the remarks of Senn, expressing his own opinion on this point: "Any surgeon who follows such a stringent rule, with few exceptions, as advocated by Dr. Deaver to-day may be a good practitioner, but he would make a poor and dangerous teacher. . . . I do not wish to insinuate . . . against Dr. Deaver, who certainly stands at the head of the surgical profession of this country, and whose practice is perfectly safe in abdominal work, but I do know from personal knowledge, of men who have been guided by the rule he lays down, who have repeatedly removed the healthy appendix. . . . For my part I always feel weakest in the matter of making an early

diagnosis in the first attack." Deaver says however: "Better take out a healthy appendix and have the patient recover, than a diseased one and have the patient die" (27). Abroad, Riedel is the leading advocate of immediate operation in all cases (28).

Since the paper of Fitz the disease has been claimed for treatment by the surgeon, not only in this country but abroad. "Sonnenburg hat den Satz ausgesprochen: Die Perityphilitiden gehören den Chirurgen. Gut! Gehen wir darauf ein, machen wir den Versuch!" (Sahli, 1895 (29)).

## STATISTICS.

IN an effort to ascertain the effect of surgical treatment on the mortality of appendicitis there are three sources from which to gather data: reports of individuals, reports of hospitals, and reports of the Public Services — Army, Navy, and Marine Hospital Service.\* The words mortality and fatality are generally employed synonymously, but the former may be restricted to frequency of death per unit of population and the latter per unit of sick. Mortality statistics are compiled by governments from certificates of death furnished by physicians; with a given fatality, the mortality of a disease will vary with the morbidity. Fatality is an index of the success of treatment, two impor-

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\*An effort to secure data abroad, through United States Consuls in the large capitals of Europe, was unsuccessful.

tant factors being the severity of the disease and the resisting powers of the patient. Morbidity is influenced by endemic, epidemic and psychological factors, concerning which we have but meagre information.

The first large series of cases of perityphlitis was compiled by Mattersock in 1880 (30), 977 attacks with 294 deaths, or 30% ; since then this has been generally accepted as the fatality previous to the present operative era in the treatment of appendicitis, or perityphlitis as it is still called by most European writers.\* Mattersock's data is not given in detail; as it includes the earliest period in the history of the disease, it seemed possible this fatality was unduly high from inclusion of inflammatory processes in the iliac fossa following accouchment, as in Grisolle's 20 deaths in 75 cases of "*tumeurs phlegmoneuses des fosses iliaques*," the latter in fact stating their fatality was about twice that of the non-*puerpereal*.

I have collected from the reports of all the European hospitals accessible, seven in number, 1,916 cases of typhlitis and perityphlitis with 128 deaths, or 6.6%, for the period 1870 to 1890, previous to which the number of cases rapidly dwindles, just as appendicitis disappears from American hospital reports about 1890. There are chiefly two classes of cases of appendicitis

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\*"The mortality is not by any means clearly established." (Fitz, N. Y. Med. Jour., May 12, 1888, p. 505.) Noyes collected 100 cases treated by simple incision of the abscess with 15 deaths. (Trans. R. I. Med. Soc., 1882-3, p. 495.)

not included in reports of perityphlitis from 1870 to about 1890 — general peritonitis starting in the appendix and those described as chronic. To ascertain their relative frequency I have collected from all the reports of American hospitals accessible, in which this information is given, seven in number (Table II), 13,894 cases of appendicitis, of which 664, or 4.7%, were complicated by general peritonitis, and 5,211, or 37.5%, were chronic. Table III shows how little the fatality of 6.6% is changed by “correcting” the statistics for the twenty years preceding 1890, by means of the information just stated, in an effort to make the periods before and after 1890 comparable — the large number of mild cases with a negligible fatality offsetting the small number with a high fatality. The statistics of Sahli immediately following 1890, and those of Stricker ending in 1905, in their correspondence with the figures I have given for the period immediately preceding 1890, suggest more than a coincidence.

Sahli (29) in 1895 collected 7,213 cases with 692 deaths, or 9.7%, from reports made to him by 466 physicians — 475 attacks, or 6.5%, were subjected to operative interference. The deaths were 101 of those operated, or 21%; and 591, or 8.8%, for the 6,740 treated without operation.

Stricker (31) in 1906 collected a still larger series of cases from the records of twenty corps of the German Army:



	Cases.	Died.	Operated.	Died.	TREATED WITHOUT OPERATION.	
					Cases.	Died.
1880 to 1900.	6,296	270 (4.2%)	235 (3.7%)	66 (28%)	6,061	204 (3.3%)
1900-05. ....	4,498	142 (3.1%)	629 (14%)	98 (15.5%)	3,869	44 (1.1%)
Total .....	10,794	412 (3.8%)	864 ( 8%)	164 (18%)	9,930	248 (2.5%)

Combining the statistics of Sahli and Stricker, which agree significantly, we have a total of 18,007 cases with 1,104 deaths, or 6.1%; 1,337, or 7.4%, subjected to operation; the deaths were 265 of those operated, or 19%, and 839, or 5%, for the 16,570 cases, or, better, attacks treated without operation.

From the Public Services, in this country, I have collected (Table XI) 3,347 attacks of appendicitis since 1895; with 160 deaths, or 4.7%. It must be noted more than half were operated, as compared with 14% operated in the German Army—and practically the same fatality.

I have collected from the reports of 52 hospitals, in this country, 43,039 attacks of appendicitis treated since 1890, with 3,152 deaths, or 7.3%; the fatality before 1900 was 11.3%, and 6.3% since. From the reports of 23 of these hospitals (Table IV), it was possible to ascertain the number subjected to operation—28,036 attacks with 26,044 operated, or 92%, of which

5,210 attacks were before 1900 with a fatality of 11.7% operation in 81%, and 22,826 attacks since 1900, with a fatality of 5.9%, operation in 95%; the remaining 29 hospitals (Table IV) undoubtedly agree closely with this group in the percentage of cases subjected to operation. From the reports of 5 European hospitals (Table VI), unfortunately all that were accessible, I have collected an additional 7,589 attacks since 1890; for 971 of these, treated at the Charité, Berlin, with 66 deaths, or 6.7%, the number operated cannot be stated, though 302, or 31%, are found in the reports of the surgical division; of the remaining 6,618 attacks with 872 deaths, or 13.1%, there was operated 3,469, or 52%, making a total of 34,654 attacks with 2,832 deaths, or 8.1%, from reports of American and European hospitals in which the proportion subjected to operation can be stated, namely, 85%. In Table IV it can be noted there is a decrease in fatality for each hospital since 1900, and an increase in the percentage of cases operated, but on scrutiny of the extracts from the hospital reports, which follow, one finds in some instances this is due to an increase in the chronic, interval, subacute and less serious cases. The history of the operation in this country and England seems epitomized in the list of operations performed at Roosevelt Hospital, New York — where Dr. McBurney was the Surgeon in Chief until 1900 — and at St. Bartholomew's, London (Tables VIII and IX).

Since 1900 there have been treated in three hospitals in this country — St. Mary's, Rochester, Minn., The German, Philadelphia, and The Augustana, Chicago, representing the work of Drs. William J. Mayo, John B. Deaver and A. J. Ochsner — 10,247 cases, 97% being subjected to operation, with 351 deaths, or 3.4%: 4,173 of these, or 40%, are described in the reports as chronic or interval cases, with only 11 deaths, or 0.2%, deducting which there remains 5,141 acute and sub-acute cases with 302 deaths, or 5.8% (Table X). This agrees closely with 1,180 cases treated by Riedel (28b) in Germany, between January 1, 1903, and September 30, 1907, with 76 deaths, or 6.4%. Ridel's most fortunate series of 441 cases with 12 deaths, or 2.9%, subjected to operation between January 1, 1906, and September 30, 1907 — excluding 130 cases in children with 13% fatality — and Mayo's 1,957 acute cases with 47 deaths, or 2.4%, for the eight years 1,900–07, excluding 2,287 chronic cases with only 2 deaths, or 0.08%, can be regarded as the present high-water mark of surgical success in the operative treatment of acute appendicitis, all cases being subjected to operation. If Mayo's acute and chronic cases are combined they make a unique series of 4,784 cases since 1900, with a fatality of 1.0%, all but 19 with 5 deaths being operated. To compare with it there is Stricker's unique series of 3,869 cases for the six years, 1900–05, treated without operation, with a fatality of 1.1%. There are no medical statistics showing the fatality of

“chronic” cases. I have collected 10,798 chronic and interval cases subjected to operation, with a fatality of 0.5% (Table X).

### SUMMARY.

I HAVE collected in all 55,891 attacks of appendicitis with 4,378 deaths, or 7.7%: 1,916 with a fatality of 6.6% treated in the preoperative era, before 1890, and 53,975 since, with a fatality of 7.8%, from 50% to 100% being subjected to operation in different series of attacks constituting this total. The combined statistics of Sahli and Stricker give 18,007 attacks with a fatality of 6.1% — the number subjected to operation being only 7.4%. It must be remembered, however, that to compare a series of cases with recurrent attacks, treated by purely medical means, with a series in which all are operated, and therefore without recurrent attacks, the fatality in the former should be increased by the percentage of recurrences; when part are operated and part treated medically this difference is lessened. Because of insufficient data it is impossible to correct the statistics for this factor, but, for example, in 13,036 of the attacks reported by Sahli and Stricker there was recurrence in 19.8%, with the aid of which information the actual number of their cases, suffering 18,007 attacks, can be approximated at 14,440, increasing the fatality of 6.1% for the attacks, to 7.6% for the actual number of cases. There are no

statistics on a large scale showing the relative fatality of the primary attack and recurrences; 78% of the recurrences, in Stricker's statistics, were within the first year and less than 10% after the second year.

The surgeon assumes grave responsibilities in his efforts to aid nature, the consciousness of which must often weigh heavily upon him. Every one who desires to engage in surgical work, every one who is called upon to advise as to the necessity of surgical intervention, must determine for himself what constitutes legitimate surgery. The subject of this essay placed on trial a large amount of operating; the evidence accumulated can speak for itself. My own conclusion is that with the inauguration of the present operative era in the treatment of appendicitis, the fatality of the disease was increased before 1900, and later subsided to about its point of departure — that is when the sum totals are considered. The success of any one operator points to what all may hope to accomplish, but such final and general success in the surgical treatment of appendicitis will have to be chronicled by some future essay.

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TABLE I.

Showing Cases of Perityphlitis and Typhlitis Recognized Between 1870 and 1890 in the Seven European Hospitals Named.

NAME OF HOSPITAL.	Total Patients.	One in	Cases.	Died.	Pr. ct.
Charite, 1874-1889.....	241,030	(798)	302	14	4.6
K. K. Krankenanstalt Rudolph-Steffenig in Wien 1865-1891.....	207,111	(1511)	137	10	7.2
Allgemeine Kran. Wien, 1868-1890....	533,813	(658)	811	57	7.
Kirkenhaus Wieden, 1868-1889.....	116,526	(515)	226	4	1.7
Middlesex Hospital, 1869-1889.....	49,994	(442)	113	12	10.6
St. Bartholomew's, 1873-1888.....	105,679	(620)	170	22	12.9
	1,301,878	(678)	1916	128	6.6



# REPORTS OF CHARITE HOSPITAL.

BERLIN.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF TYPHLITIS AND PERI- TYPHLITIS.	DIED.
1874..... (I)	13,792	16 Medical Report.....	3
1875..... (II)	14,149	11 " " .....	0
1876..... (III)	12,378	10 " " .....	0
1878..... (IV)	15,125	12 " " .....	0
1879..... (V)	16,618	12 " " .....	2
1880..... (VI)	18,234	5 " " .....	0
1881..... (VII)	18,225	17 " " .....	1
1882..... (VIII)	18,009	18 " " .....	1
1883..... (IX)	17,463	20 " " .....	1
	.....	0 Surgical Report.....	0
1884..... (X)	16,862	36 Medical Report.....	0
	.....	1 Surgical Report.....	0
1885. .... (XI)	18,335	39 Medical Report.....	4
	.....	1 Surgical Report.....	1
1886..... (XII)	18,263	27 Medical Report.....	0
	.....	3 Surgical Report.....	0
1887-88..... (XIII)	23,269	50 Medical Report.....	0
	.....	3 Surgical Report.....	0
1888-89..... (XIV)	20,358	18 Medical Report.....	1
	.....	3 Surgical Report.....	0
	241,030	302.....	14 (4.6%)

REPORTS OF  
K. K. KRANKENANSTALT,  
RUDOLPH-STEFFENIG IN WIEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES.	DIED.
1865.....	6,197	0	0
1866.....	7,821	2	0
1867.....	8,755	0	0
1868.....	8,234	1	0
1869.....	7,883	6	0
1870.....	7,328	4	2
1871.....	7,112	3	0
1872.....	7,064	3	0
1873.....	7,162	6	0
1874.....	6,254	6	2
1875.....	6,692	5	1
1876.....	6,540	7	0
1877.....	6,588	4	0
1878.....	7,316	11	1
1879.....	7,825	0	0
1880.....	7,460	0	0
1881.....	7,104	1	0
1882.....	7,610	4	0
1883.....	8,954	2	0
1884.....	8,042	0	0
1885.....	8,694	8	0
1886.....	7,660	10	0
1887.....	8,031	8	1
1888.....	8,509	8	1
1889.....	8,766	17	2
1890.....	8,445	6	0
1891.....	9,065	15	0

207,111  
(1 in 1511)

137

10  
(7.2%)

## K. K. ALLGEMEINEN,

## KRANKENHAUS ZU WIEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1868. ....	20,880	12	0
1869. ....	21,977	12	1
1870. ....	21,657	21	1
1871. ....	22,860	22	2
1872. ....	24,007	25	3
1873. ....	22,049	38	3
1874. ....	20,563	32	0
1875. ....	21,297	25	0
1876. ....	20,659	20	5
1877. ....	21,743	31	2
1878. ....	22,263	27	0
1879. ....	23,068	31	5
1880. ....	23,249	36	2
1881. ....	23,565	22	6
1882. ....	23,981	35	0
1883. ....	24,759	45	6
1884. ....	25,689	54	2
1885. ....	24,448	30	4
1886. ....	24,397	32	3
1887. ....	25,796	58	0
1888. ....	25,138	72	2
1889. ....	25,473	65	5
1890. ....	24,285	66	3
	533,813 (1 in 658)	811	57 (7%)

REPORTS OF  
K. K. KRANKENHAUS,  
WIEN.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1868.....	7,820	2	0
1869.....	7,105	1	0
1870.....	6,344	5	0
1871.....	7,563	13	0
1872.....	6,481	10	0
1873.....	3,406	13	0
1874.....	3,468	5	0
1875.....	3,204	7	0
1876.....	3,167	3	0
1877.....	3,182	6	1
1878.....	3,413	8	0
1879.....	3,208	3	0
1880.....	3,873	11	2
1881.....	4,046	7	0
1882.....	4,084	10	0
1883.....	4,261	13	0
1884.....	6,955	22	1
1885.....	6,732	18	0
1886.....	7,189	12	0
1887.....	8,095	17	0
1888.....	6,564	20	0
1889.....	6,366	20	0

116,526  
(1 in 515)

226

4  
(1.7%)

# REPORTS OF MIDDLESEX HOSPITAL.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF TYPHLITIS, PERITYPHLITIS AND PERICÆCAL ABSCESS.	DIED.
1869.....	2,142	4 Medical Report.....	1
1870.....	2,123	4 " ".....	0
1871.....	1,991	1 " ".....	0
1872.....	2,061	4 " ".....	0
1873.....	2,596	12 " ".....	0
1874.....	2,797	4 " ".....	0
1875.....	2,910	7 " ".....	0
1878.....	2,279	5 " ".....	0
1879.....	2,853	9 " ".....	0
1880.....	2,763	3 " ".....	0
1881.....	3,010	10 " ".....	0
1882.....	3,092	8 " ".....	0
1883.....	2,901	16 " ".....	1
1884.....	1,810	8 " ".....	0
		1 Surgical Report..... (Ulceration and perforation of vermiform appendix.)	1
		2 Surgical Report..... (Pericæcal Abscess)...	1
1885.....	2,951	14 Medical Report.....	0
		3 Surgical Report.....	1
1886.....	3,123	8 Medical Report.....	0
		3 Surgical Report.....	0
1888.....	3,097	9 Medical Report.....	0
		1 Surgical Report.....	1
1889.....	3,226	15 Medical Report.....	3
		6 Surgical Report.....	0
	47,725	157	9
	(1 in 303)		(5.7%)

REPORTS OF  
ST. BARTHOLOMEW'S HOSPITAL,  
LONDON, ENG.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1873.....	5,902	6 Medical Report—Typhlitis.....	1
1874.....	6,342	5 Medical Report—Typhlitis and Coleritis.....	0
1875.....	6,057	1 Medical Report—Perityphlitis...	0
1876.....	5,623	2 “ “ —Typhlitis.....	0
1877.....	5,225	5 “ “ “.....	3
1878.....	5,653	2 “ “ “.....	1
1879.....	6,314	3 “ “ “.....	1
1880.....	6,529	2 “ “.....	0
1881.....	6,896	16 “ “.....	0
1882.....	7,383	15 “ “ Perityphlitis.....	1
1883.....	7,397	10 “ “ Typhlitis.....	1
1884.....	7,640	16 “ “ Perityphlitis.....	0
1885.....	7,349	10 “ “.....	2
		6 Surgical Report:	
		2 Perityphlitis.....	
		4 Perityphlitic Abscess...	4
1886.....	6,908	12 Medical Report—Typhlitis.....	0
1887.....	7,529	26 25 Medical Report:	
		Typhlitis (4 died).....	
		1 Surgical Report:	
		Perityphlitis (1 died).....	5
1888.....	6,932	33 29 Medical Report:	
		Typhlitis (3 died).....	
		4 Surgical Report:	
		Perityphlitis (0 died).....	3

105,679 170  
(1 in 621)

22  
(12.9%)

REPORTS OF  
ST. THOMAS' HOSPITAL,  
LONDON, ENG.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.	
1878....	3,356	0 .....	0	
1879 ...	3,183	3 Medical Report.....	0	
1880....	3,351	7 " " .....	0	
1881....	4,007	0 .....		
1882....	4,146	0 .....		
1883....	4,432	5 Medical Report.....	0	
		1 " " Perforated. Appendix..	1	Acute peritonitis, pleu- risy and pericarditis.
1884....	4,699	16 " Report.....	0	
1885 ...	4,479	8 " " Perforated. Appendix..	3	
1886....	4,458	13 " " .....	0	
		2 " " Perforated. Appendix..	2	
		1 Surgical Report..... Typhlitis..	1	
1887....	4,385	12 Medical Report.....	0	
		4 " " Perforated. Appendix..	4	
1888....	4,953	17 " " .....	1	
1889....	4,545	18 " " Perityphlitis	0	
		3 " " Perforated.. Appendix..	3	

49,994 113  
(1 in 442)

12  
(10%)

TABLE II.

Showing Proportion of Cases under head of Chronic Appendicitis and Appendicitis with General Peritonitis for Hospitals and Period Named.

NAME OF HOSPITAL AND YEARS (INCLUDED IN).	APPENDICITIS WITH GENERAL PERITONITIS.	CHRONIC APPENDICITIS.	TOTAL CASES.
Massachusetts General, 1899-1906	255 (149 died)	965 ( 2 died)	3,035
St. Mary's, 1903-1907.....	38 ( 16 died)	2,351 ( 1 died)	3,955
Roosevelt, 1889-1906.....	112 ( 82 died)	347 ( 3 died)	1,912
St. Luke's, 1901-1907. ....	66 ( 28 died)	562 ( 2 died)	1,348
J. Hood Wright, 1901-1907....	34 ( 16 died)	25 ( 0 died)	363
Augustana, 1900-1906.....	82 ( 35 died)	785 ( 5 died)	2,175
Rhode Island Hospital, 1897-1907	77 ( 44 died)	176 ( 2 died)	1,106
	664 (370 died) (4.7%)	5,211 (15 died) (37.5%)	13,894 (100%)



TABLE III.

Correcting Table I by Means of Information Furnished in Table II.

Cases recognized as perityphlitis and typhlitis between years 1870-1890 in seven European hospitals as shown in table. ....	1906 or 57.8%		
Estimated number cases General Peritonitis...	156 or 4.7%		
Estimated No. Chronic Cases .....	1241 or 37.5%	Estimated proportion of entire No. in view of table. Assumed fatality of 100% .....	Died 94 (5%) Died 156
Estimated total number cases in view of table..	3,313	100%	250 (7.5%)

TABLE IV.

NAME OF HOSPITAL.	TOTAL NUMBER OF PATIENTS.		TOTAL NO. CASES OF APPENDICITIS.		TOTAL NO. DEATHS.		PERCENTAGE FATALITY.		OPERATIONS FOR APPENDICITIS.	
	1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	1900 and After.	Before 1900.
1 New Haven Hospital, New Haven, Conn.	12,193	9,889	22,082	435	129	564	42	18	60	88
2 City Hospital, Worcester, Mass.	16,468	13,189	31,657	583	175	758	39	18	57	135
3 Lawrence General Hospital, Lawrence, Mass.	4,117	3,101	7,218	995	34	319	21	2	23	497
4 Massachusetts General Hospital, Boston, Mass.	35,125	24,936	60,061	2,753	1,137	3,890	192	106	298	251
5 Lynn Hospital, Lynn, Mass.	9,432	4,797	14,229	290	92	382	23	22	45	912
6 Malden General Hospital, Malden, Mass.	2,337	1,769	4,106	316	42	358	14	5	9	63
7 Paterson General Hospital, Paterson, N. J.	11,145	9,484	20,629	330	163	493	38	12	50	38
8 S. R. Smith Infirmary, New Brighton, N. Y.	13,770	3,931	17,701	696	125	821	40	24	64	342
9 Roosevelt Hospital, N. Y.	27,064	31,853	58,917	1,223	689	1,912	104	96	200	73
10 German Hospital, Philadelphia, Pa.	17,280	13,189	30,469	2,895	569	3,464	185	44	229	663
11 St. Luke's Hospital, New York City.	22,729	15,365	38,094	1,477	322	1,799	91	42	133	679
12 New York Hospital, New York City.	52,359	37,521	89,880	1,281	495	1,776	105	68	173	475
13 St. Francis Hospital, New York City.	11,679	23,423	35,102	166	81	247	21	20	41	294
14 J. Wood Wright Memorial, New York City.	19,198	14,113	33,311	411	82	493	35	17	52	368
15 Hartford Hospital, Hartford, Conn.	16,999	10,072	27,071	823	228	1,051	50	20	70	186
16 Augustana Hospital, Chicago, Ill.	13,043	2,596	15,639	2,175	156	2,331	79	5	84	83
17 St. Mary's Hospital, Rochester, Minn.	21,886	4,658	26,544	4,784	225	5,009	49	5	54	186
18 St. Joseph's Hospital, Paterson, N. J.	9,384	9,456	18,840	243	108	351	43	21	64	156
19 Margaret Pillsbury Hospital, Concord, N. H.	1,472	1,290	2,762	81	15	96	0	1	1	42
20 Rhode Island Hospital, Providence, R. I.	27,424	17,605	45,029	965	233	1,198	113	30	143	11
21 St. Michael's Hospital, Newark, N. J.	16,501	10,835	27,336	262	70	332	29	15	44	873
22 St. Luke's Home and Hospital, Utica, N. Y.	5,277	2,417	7,694	186	27	213	15	1	16	150
23 Orange Memorial Hospital, Orange, N. J.	4,192	5,468	9,660	156	82	238	20	20	40	243
Totals and averages.	364,395	247,370	611,765	22,826	5,210	28,036	1,348	612	1,960	2,954
Brought forward from Table V.	224,839	289,256	461,095	11,511	3,492	15,003	819	373	1,192	1,565
	589,234	486,626	1,075,860	34,337	8,702	43,039	2,167	985	3,152	4,519

TABLE IV.—Continued.

No. of Hospital. (Continued.)	TOTAL NUMBER OF ALL OPERATIONS, MAJOR AND MINOR.			PERCENTAGE OF APPENDICITIS CASES OPERATED UPON.			PERCENTAGE RELATION OF APPENDICEAL OPERATIONS TO ALL OTHERS.			PROPORTION OF CASES OF APPENDICITIS TO TOTAL NUMBER OF PATIENTS.					OPERATIVE DEATHS.				
	1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	Entire Period.	1900 and After.	Before 1900.	Entire Period.	1900 and After.	Before 1900.	Entire Period.	1900 and After.	Before 1900.	Percent- age.	Total.	Percent- age.	Total.	Percent- age.
1.....	2,415	1,927	4,342	74	69	73	13.2	4.	9.4	One in 28	76	39	330	1210	.....	.....	.....	.....	.....
2.....	4,811	2,315	7,126	85	77	82	10.5	5.8	8.8	" 31	75	41	297	1210	.....	.....	.....	.....	.....
3.....	1,845	448	2,293	83	58	83	13.6	3.1	11.1	" 13	45	16	35	297	.....	.....	.....	.....	.....
4.....	21,339	11,987	33,326	104	80	94	13.4	7.6	10.1	" 12	41	15	10	14	187	6.5	99	10.8	286
5.....	1,068	1,439	2,507	84	68	80	4.9	4.3	4.7	" 32	52	37	33	102	.....	.....	.....	.....	.....
6.....	1,499	580	2,079	96	90	95	21.2	6.5	17.	" 9	40	12	8	18	11	3.6	3	7.8	14
7.....	3,685	2,475	6,160	86	70	82	7.1	2.9	5.8	" 33	92	47	29	57	370	.....	.....	.....	.....
8.....	1,690	1,087	2,777	95	61	88	14.1	7.	12.6	" 19	31	21	20	13	35	.....	.....	.....	.....
9.....	8,952	13,082	22,034	100	98	99	13.7	5.1	8.6	" 22	46	30	21	21	829	100	8.1	82	12.9
10.....	8,335	5,076	13,411	96	91	95	13.8	16.4	27.9	" 15	47	21	10	18	829	100	8.1	82	12.9
11.....	10,270	8,332	18,602	89	74	85	10.4	4.4	7.8	" 40	75	50	51	60	1,568	102	5.8	42	8.8
12.....	11,013	1,632	12,645	68	88	67	4.3	4.4	4.3	" 70	146	85	32	87	131	392	101	8.7	53
13.....	2,658	1,315	3,973	80	100	88	9.3	6.1	8.4	" 24	50	29	24	26	57	.....	.....	.....	.....
14.....	3,568	2,856	6,424	90	81	88	11.5	4.8	9.8	" 20	44	25	14	36	167	.....	.....	.....	.....
15.....	11,103	2,510	13,613	99	100	99	19.5	6.2	17.1	" 5	16	6	4	10	23	78	3.6	5	3.2
16.....	26,162	5,348	31,510	92	95	90	22	4.	15.8	" 4	20	52	53	55	47	306	35	16.6	17
17.....	2,404	2,355	4,759	86	67	80	8.2	3.5	6.3	" 38	87	53	55	47	170	.....	.....	.....	.....
18.....	1,527	3,347	4,874	51	73	55	7.9	3.1	6.	" 14	86	25	13	50	353	122	13.9	27	18.
19.....	11,609	5,667	17,276	90	64	85	7.5	2.9	6.	" 28	75	37	46	46	353	122	13.9	27	18.
20.....	8,104	4,878	12,982	80	45	73	2.6	6.5	11.1	" 62	134	82	52	71	132	17	8.	5	15.6
21.....	2,645	3,569	6,214	85	94	67	6.7	2.4	5.4	" 28	69	26	27	40	117	.....	.....	.....	.....
22.....	889	950	1,839	101	56	86	17.8	4.8	11.1	" 25	66	40	61	39	159	21	13.2	13	38.2
23.....										"									
	150,330	80,656	230,986	95	81	92	13.6	5.2	10.8	" 11 (6.2%)	47 (2.1%)	21 (4.5%)							
										19	68	30							

17 55 25  
\* (1890 earliest period.)



## NEW HAVEN HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1906....	2,200	86 55 simple (1 died)..... 5 with general peritonitis (3 died). .... 25 suppurative (2 died).. 1 with intestinal obstruction (1 died).....	7.....	52	406
1900 and after.	.....	.....	42.....	324	2,445
Before 1900.	.....	.....	18.....	88	1,927
			60	412	4,372

In 1891 3 cases in 983 patients in hospital, or about 1 to 330, or .003%.

In previous 3 years, 1888-89-90, 0 cases in 2,787 patients.

In 1906, 86 cases in 2,200 patients in hospital, or 1 for every 25, or nearly 4%.

In 1900, 46 " 1,369 " " " 1 for every 30, or nearly 3%.

In 1900-06, 435 " 12,193 " " " 1 for every 28, or about 3½%.

In 1890-99, 129 " 9,889 " " " 1 for every 76, or about 1⅓%.

Total, 564 22,082

Mortality 1900, on 9.6% (42 died in 435).

Mortality up to 1900, 13.9% (18 died of 129).

Total of appendicitis patients, 564.

Number operated 1900 on 324 operated out of 435 patients, or 74%, or about  $\frac{3}{4}$

“ “ up to 1900 88 “ “ 129 “ or 68%.

Percentage of number operated 1900 on 324 operations for appendicitis out of 2,445 operations, 13.2%.

Percentage of number operated up to 1900, 88 operations for appendicitis out of 1927 operations, 4%.

Increase in percentage cases operation of 9.2 shows reduction in mortality of 4.3%.

Total operations of all kinds, 4,372.

Total operations for Appendicitis, 412.

Percentage of deaths from Appendicitis (42) to total patients after 1900 (12,193), equals .34%.

Percentage of deaths from Appendicitis (18) to total patients before 1900 (9,889), equals .18%. (Percentage of deaths to total patients almost doubled.)

22,082 total patients.

REPORTS OF  
CITY HOSPITAL,  
WORCESTER, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operation.	Total No. of All Operations.
1890....	957	2 .....			
1891....	1,250	1 (perforating) .....	1	?	
1892....	1,389	2 .....	1	?	
1893....	1,389	5 .....	1	?	
1894....	1,306	9 .....	0	?	
1895....	1,520	13 .....	0	13	
1896....	1,709	19 .....	3	11	
1897....	1,582	25 .....	3	18	741
1898....	1,739	47 .....	6	47	564
1899....	1,777	56 .....	4	46	1,010
1900....	2,035	57 .....	6	50	688
1901....	2,142	62 .....	3	48	668
1902....	?	.....	.....	.....	
1903....	2,955	65 .....	3	47	953
1904....	3,245	89 .....	9	77	1,043
		78 with abscess (2 died) .....			
		4 " general peritonitis (3 died) .....			
		1 " pneumonia (0 died) .....			
		3 " pyaemia (3 died) .....			
		4 " abscess (1 died) .....			
1905....	3,891	148 .....	9	121	1,140

## CITY HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operation.	Total No. of All Operations.
1906....	4,200	79 " Appendicitis"..... 16 Acute..... 13 " suppurative..... 2 " with perforation..... 2 " catarrhal..... 8 " with abscess.....	9	154	1,319
1900 and after.	18,468	583.....	39	497	4,811
Before 1900.	13,189	175.....	18	135	2,315
	31,667	632.....	57	.....	7,126



REPORTS OF  
LAWRENCE GENERAL HOSPITAL,  
LAWRENCE, MASS.

YEAR.	Total No. of Patients.	NUMBER OF CASES APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1896.....	297	1.....	0	0	172
1897.....	325	6.....	1	3	71
1898.....	229	4.....	1	4	89
1899.....	250	13.....	0	7	116
1900.....	227	6.....	0	4	104
1901.....	251	5.....	0	2	160
1902.....	280	7.....	1	4	174
1903.....	402	22.....	1	12	147
1904.....	500	42.....	3	35	258
1905.....	696	68 8 with general peritonitis, 4 died.	6	67	369
1906.....	800	73.....	1	68	214
1907.....	961	72 9 with general peritonitis, 4 died.	9	59	419
1900 and after.	4,117	295.....	21	251	1,845
Before 1900.	1,101	24.....	2	14	448
	5,218	319.....	23	265	2,293

REPORT OF  
MASSACHUSETTS GENERAL HOSPITAL.  
BOSTON, MASS.

Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total Number of All Operations.
1893	3524	84 61 Acute, 10 died .... 4 Chronic, 0 died .... 16 Recurrent, 1 died.. 1 "After Appendici- tis," 1 died.	13	71 13 died.	1641
1894	3406	130 103 Acute, 14 died .... 7 Chronic, 0 died .... 10 Recurrent, 0 died..	14	101 12 died.	1798
1896	4304	188 121 Acute, 16 died .... 34 Chronic, 0 died .... 33 Recurrent, 0 died..	16	157 15 died.	2294
1897	4079	191 92 not specified, 7 died. 28 Acute, 11 died .... 3 Catarrhal, 0 died.. 50 Chronic, 3 died .... 18 Gangrenous, 3 died.	24	176 23 died. 146 Appendicectomy 20 died. 30 Abscess 3 died.	1730
1898	4807	262 134 "Appendicitis," 7 died. 103 " Acute, 5 died. 1 " Catarrhal, 0 died. 24 Appendiceal Ab- scess, 3 died.	15	219 201 during attack 9 died. 18 Interval 2 died.	2103

## MASSACHUSETTS GENERAL HOSPITAL—Continued.

Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total Number of All Operations.
1899	4816	282 146 Acute, 9 died. .... 19 " with general peritonitis, 15 died. 90 Chronic, 0 died. .... 27 Catarrhal, 0 died...	24	206 23 died. 60 Interval, 2 died.	2421
1900	4640	326 142 Acute, 10 died. .... 37 Acute with general peritonitis, 27 died. 120 Chronic, 0 died. .... 27 Catarrhal, 0 died...	37	405 180 Acute, 11 died. 37 " with General Peritonitis, 27 died. 94 Interval Operation, 0 died. 94 Chronic, 0 died.	2544
1901	5094	333 146 Acute, 6 died. .... 47 with general perito- nitis, 30 died. 93 Chronic, 0 died. .... 47 Catarrhal, 0 died...	36	330 30 died. 144 Acute Appendicitis, 5 died. 41 Acute with general peri- tonitis, 25 died. 20 Chronic, 0 died. 55 Catarrhal, 0 died.	2984 Major—1254
1902	4936	361 1 Acute with general peritonitis and intes- tinal obstruction, 1 died. .... 2 with Intestinal Ob- struction, 0 died. 1 with tubercular men- ingitis, 1 died. 131 Chronic, 1 died. .... 48 Catarrhal, 0 died... 31 Acute with General Peritonitis, 17 died. 147 Acute, 7 died. ....	27	315 28 died. 136 Acute, 10 died. 26 Acute with general peritonitis, 16 died. 61 Chronic, 2 died. 92 Catarrhal, 0 died.	3266 Major—1328

## MASSACHUSETTS GENERAL HOSPITAL—Continued.

Year.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total Number of All Operations.
1903	5080	376 195 Acute, 8 died . . . 36 Acute with General Peritonitis, 16 died. 1 Acute with intestinal obstruction, 1 died. 34 Catarrhal, 0 died . . . 110 Chronic, 0 died . . .	24	421 23 died. During attack, 342—23 died. 188 Acute, 9 died. 21 “ with general peritonitis, 14 died. 53 Chronic, 0 died. 70 Catarrhal, 0 died. Interval, 79, 0 died.	3109 Major—1374
1904	5294	427 219 Acute, 6 died . . . . . 32 Acute with general peritonitis, 18 died. 1 Acute with intestinal obstruction, 1 died. 19 Catarrhal, 0 died . . . 133 Chronic, 0 died . . .	25	490 24 died. 356 during attack. 209 Acute, 8 died. 28 with general perito- nitis, 16 died. 55 Chronic, 0 died. 64 Catarrhal, 0 died.	3271 Major—1482
1905	5096	439 218 Acute, 4 died . . . . . 30 Acute, General Peri- tonitis, 15 died. 3 Internal obstruction, 3 died. 1 Acute with Mesen- teric Thrombosis, 0 died . . . . . 58 Catarrhal, 0 died . . 129 Chronic, 1 died . . .	23	460 24 died. 372 during attack. 212 Acute, 6 died. 29 with general perito- nitis, 15 died. 79 Chronic, 2 died. 55 Catarrhal, 0 died. 88 Interval, 0 died.	3182 Major—1439
1906	5075	491 239 Acute, 9 died . . . . . 23 Acute with General Peritonitis, 11 died. 70 Subacute, 0 died . . . 159 Chronic, 0 died . . .	20	537 20 died. 431 during attack. 224 Acute, 8 died. 22 Acute, with general peritonitis, 10 died. 111 Chronic, 1 died. 74 Subacute, 0 died. 62 Interval, 0 died. 44 Normal Appendix removed during other operation, 1 died.	2983 Major—1422

REPORTS OF  
LYNN HOSPITAL,  
LYNN, MASS.

YEAR.	Total No. of Patients.	NO. OF CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1890....	327	1.....	0	0.....	83
1891....	385	2.....	0	1.....	81
1892....	424	1.....	0	1.....	92
1893....	435	6.....	1	5 ? .....	84
1894....	465	9.....	5	9.....	116
1895....	551	9.....	2	4.....	74
1896....	638	22.....	1	14 (1 died).	274
1897....	800	28.....	8	19 (8 died).	321
1898....	772	14.....	5	10 (5 died).	314
1900....	1,037	31.....	2	29 (2 died).	469
1901....	1,047	38.....	4	35 (4 died).	498
1902....	1,117	41.....	2	39 (2 died).	478
1903....	1,263	22.....	0	? .....	389
1904....	1,441	52.....	3	47 (3 died).	863
1905....	1,721	51.....	9	50.....	972
1906....	1,846	55.....	3	44 (3 died).	1,199
1900 and after.	9,462	290.....	23	244.....	4,968
Before 1900.	4,797	92.....	22	63.....	1,439
	14,259	382.....	45	307.....	6,407

# REPORTS OF MALDEN HOSPITAL,

MALDEN, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATION.	Total No. of all Operations.
1893....	100	0.....	0	.....	35
1894....	163	1.....	1	.....	43
1896....	183	4.....	1	4 (0 died).....	45
1897....	245	5.....	0	6 (0 died).....	83
1898....	248	12.....	2	12 (2 died).....	130
1899....	249	7.....	0	5 (0 died).....	133
1900....	307	12.....	1	11 (0 died).....	111
1901....	282	25.....	2	10 Acute (1 died)..... 4 Interval (0 died).... 1 Abscess (0 died)....	173
1902....	295	16.....	1	7 Acute (1 died)..... 4 Interval (0 died).... 1 Abscess (0 died)....	173
1903....	351	34.....	4	8 Interval..... 22 Acute (2 died)..... 1 Abscess..... 1 Septicaemia (1 died).	180
1904....	389	45.....	3	42 (2 died).....	152
1905....	456	63.....	0	64 (0 died).....	206
1906....	542	65.....	1	69 (1 died).....	264
1907....	622	68.....	3	70 (3 died).....	302
1900 and after.	2,937	316.....	14	304 (11 died).....	1,429
Before 1900.	1,700	42.....	5	38 (3 died).....	580
	4,637	358.....	19	342.....	2,009

REPORTS OF  
PATERSON GENERAL HOSPITAL.

PATERSON, N. J.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1893....	1,010	3.....	0	0	133
1894....	961	3.....	0	0	284
1895....	1,154	9.....	1	9	154
1896....	1,510	11.....	2	3	391
1897....	1,638	36.....	6	31	530
1898....	1,628	19.....	2	12	556
1899....	1,583	22.....	1	18	428
1900....	1,562	27.....	3	15	465
1901....	1,525	50.....	7	31	595
1902....	1,517	31.....	6	29	456
1903....	1,629	70.....	9	62	694
1904....	1,553	36.....	4	47	527
1905....	1,598	46.....	4	42	429
1906....	1,760	60.....	5	59	519
1900 and after.	11,145	330.....	38	285	3,685
Before 1900.	9,484	103.....	12	73	2,476
	20,629	433.....	50	358	6,161

REPORTS OF  
S. R. SMITH INFIRMARY,  
NEW BRIGHTON, STATEN ISLAND, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATION.	Total No. of All Operations.
1895....	571	16 10 2 died. ....	2	5 (2 died).	69
1896....	589	16 14 2 died.....	2	11 (3 died).	201
1897....	744	16 2 Catarrhal, 0 died.... 1 Chronic, 0 died..... 1 Gangrenous, 0 died..... 12 Suppurative, 4 died.....	4	17 (5 died).	236
1898....	991	37 15 Acute Recurrent, 1 died.. 11 Suppurative, 3 died..... 1 Perforative, 0 died. .... 2 Chronic, 0 died..... 3 Catarrhal, 0 died..... 4 Chronic Recurrent, 1 died. 1 Gangrenous, 0 died.....	5	.....	307
1899....	1,036	40 3 Acute Catarrhal, 0 died... 16 Gangrenous, 6 died..... 16 Suppurative, 5 died..... 15 Recurrent, 0 died.....	11	44	294



## S. R. SMITH INFIRMARY — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1900....	1,125	86 14 Acute Recurrent, 1 died.. 20 Acute Catarrhal, 2 died... 28 Acute Gangrenous, 6 died.. 24 Suppurative, 7 died.....	16	80	526
1901....	1,178	54 2 Acute Recurrent, 0 died.. 6 Chronic, 0 died..... 20 Acute Catarrhal, 1 died.. 33 Gangrenous, 2 died..... 3 Suppurative, 0 died.....	3	54	323
1902....	1,297	83 28 Acute Catarrhal, 0 died.. 31 Acute Gangrenous, 6 died.. 11 Acute Recurrent, 0 died.. 3 Acute Suppurative, 0 died.. 9 Chronic, 1 died..... 1 Perforative, 0 died.....	7	76	468
1903....	1,584	70 19 Acute Catarrhal, 0 died.. 25 Acute Gangrenous, 1 died.. 1 Acute Recurrent, 0 died.. 9 Acute Suppurative, 1 died.. 16 Chronic Recurrent, 0 died..	.....	65	614
1904....	1,599	83 22 Acute Catarrhal, 1 died.. 23 Chronic, 0 died..... 19 Gangrenous, 0 died..... 19 Suppurative, 2 died.....	3	83	697

## S. R. SMITH INFIRMARY — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1905....	1,884	94 20 Acute Catarrhal, 0 died... 7 Acute Suppurative, 1 died. 36 Acute Gangrenous, 2 died. 31 Chronic, 0 died.....	3	92	604
1906....	2,418	117 32 Acute Catarrhal, 0 died... 37 Acute Gangrenous, 4 died. 3 Acute Suppurative, 0 died. 45 Chronic Recurrent, 0 died.	4	108	714
1907....	2,685	109 27 Acute Catarrhal, ? died... 38 Acute Gangrenous, ? died. 7 Acute Suppurative, ? died. 37 Chronic, ? died.....	4	105	744
1900 and after.	13,770	696 .....	40	663	4,690
Before 1900.	3,931	125 .....	24	77	1,087
	17,701	821 .....	64	730	5,777

REPORTS OF  
ROOSEVELT HOSPITAL,  
NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1889....	2,754	12 8 Appendicitis, 0 died . . . . . 3 Peritonitis, diffuse suppuration, 2 died . . . . . 1 Sinus, 0 died . . . . .	2	15 (2 died.)	1,779
1890....	2,815	26 7 Acute Catarrhal, 0 died . . . . . 11 Acute Suppurative, 0 died . . . 1 " " and Recur- rent, 0 died . . . . . 3 Acute Suppurative, Sinus, 0 died . . . . . 2 Acute Catarrhal, Recurrent, 0 died . . . . . 1 Acute with Suppuration, peri- tonitis and septic pneumo- nia, 1 died . . . . . 1 Acute Gangrenous, perforation and General Peritonitis, 1 died. . . . .	2	13 (1 died.)	1,231

LIST OF OPERATIONS.

- 1 Acute, Laparatomy, Excision. No drainage (0 died).
- 1 Acute with Abscess, Excision, opened and drained (0 died).
- 3 " Excision, opened and drained (0 died).
- 2 " with Abscess, Laparatomy. Appendix not found drained (0 died).
- 1 Recurrent, Appendix Excised (0 died).
- 1 Recurrent with abscess, Laparatomy, drained Appendix not found (0 died).
- 1 Recurrent with abscess, Lumbar incision and drainage (1 died).
- 2 Acute Appendicitis, Parker's drainage (0 died).
- 1 Perforation and Suppuration, medium Laparatomy (1 died).

## ROOSEVELT HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1892....	2,788	29 5 Acute Catarrhal 0 died..... 5 Acute Catarrhal Recurrent, 0 died..... 5 Acute Suppurative, 0 died.... 1 Acute Suppurative Recurrent, 0 died..... 10 Gangrenous, 5 died..... 3:1 Pyæmia..... 2 Septic Peritonitis, 3 died.	8	32 (6 died.)	841
1893....	2,720	34 9 Acute, 1 died..... 1 Shock, 1 died..... 6 Peritonitis, 5 died..... 1 Intestinal Obstruction, 1 died. 1 Catarrhal, 0 died..... 1 Suppuration, 0 died..... 4 Gangrenous, 1 died..... 1 " shock, 1 died.... 10 Recurrent, 1 died.....	11	43 (10 died.)	989
1894....	2,769	63 3 Catarrhal, 0 died..... 20 Acute, 0 died..... 5 General Peritonitis, 4 died.... 5 others, 1 died..... 1 Perforative, 1 died..... 15 Recurrent, 0 died..... 3 Relapsing, 0 died..... 1 Chronic, 0 died.....	6	59	1,074

## ROOSEVELT HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1895....	3,137	74 6 Catarrhal, 0 died..... 33 Acute, 0 died... 2 Abscess, 0 died..... 1 Abscess with intestinal obstruction, 1 died..... 1 Septicaemia, 1 died..... 7 General Peritonitis, 6 died... 5 Progressive Peritonitis, 2 died. 4 others, 0 died..... 5 Chronic, 0 died..... 10 Recurrent, 0 died.....	10	75 (10 died.)	1,237
1896....	2,987	85 2 Catarrhal, 0 died..... 35 Acute, 0 died... 5 General Peritonitis, 2 died... 3 Progressive Peritonitis, 2 died. 2 Acute with Acute Fecal Fistula, 0 died..... 5 others, 2 died..... 7 Chronic, 0 died..... 23 Recurrent, 0 died..... 3 Relapsing, 0 died.....	6	95 (6 died.)	1,196
1897....	2,990	102 17 Acute Appendicitis, 0 died... 28 Acute with Abscess, 4 died... 11 Acute with General Peritonitis, 11 died..... 1 Acute with Lobar Pneumonia, 1 died..... 1 Acute with Chronic Nephritis, 1 died..... 1 Acute with Tubercular Peritonitis, 0 died..... 1 Acute with suppression of urine, 1 died..... 1 Subacute, 0 died..... 34 Recurrent, 0 died..... 7 Chronic, 0 died.....	18	108 (16 died, 7 of 7 with General Peritonitis, 4 Abscess.)	1,127

## ROOSEVELT HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1898....	3,443	124 22 Acute, 3 died..... 33 Acute, Abscess, 3 died..... 19 Acute with Suppuration, 14 died..... 38 Recurrent, 0 died..... 2 Subacute, 0 died..... 8 Chronic, 0 died..... 2 Chronic, Abscess, 0 died....	19	107 (12 died.)	1,006
1899....	3,093	137 10 Acute, 1 died..... 31 Acute with Abscess, 2 died... 6 Acute with Septic Peritonitis, 4 died..... 2 Catarrhal, 0 died..... 4 Gangrenous, 2 died..... 67 Recurrent, 0 died..... 7 Recurrent with Abscess, 0 died. 8 Chronic, 0 died..... 1 Chronic Appendicitis, Abscess, 0 died..... 1 Chronic with Fecal Fistula, 0 died.....	12	129 (14 died.)	1,336
1900....	3,076	141 19 Acute Appendicitis, 2 died... 30 Acute with Abscess, 2 died... 10 with General Peritonitis, 7 died. 12 Gangrenous, 3 died..... 17 Chronic, 1 died..... 49 Recurrent, 0 died..... 2 "Appendicitis," 0 died..... 2 Appendicular Colic, 0 died...	15	137 (18 died.)	948

## ROOSEVELT HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1901....	3,584	116 8 Acute Catarrhal, 0 died..... 14 Acute Appendicitis, 1 died... 35 Acute Appendicitis with Abscess, 5 died..... 13 Acute with General Peritonitis, 7 died..... 20 Recurrent, 0 died..... 21 Chronic, 0 died..... 5 "Appendicitis," 1 died.....	14	112 (13 died.)	1,250
1902....	3,874	179 19 "Appendicitis," 1 died..... 7 Acute Catarrhal, 0 died..... 19 Acute Appendicitis, 0 died... 7 Acute Appendicitis with Peritonitis, 2 died..... 10 Gangrenous, 3 died..... 5 Gangrenous, General Peritonitis, 2 died..... 44 Appendicitis with Abscess, 4 died..... 12 Subacute, 0 died..... 22 Chronic, 1 died..... 25 Recurrent, 0 died..... 9 others, 0 died.....	13	176 (15 died.)	1,319
1903....	3,856	150 27 "Appendicitis," 0 died..... 2 with General Peritonitis, 2 died. 21 Acute, 0 died..... 13 Acute with General Peritonitis, 12 died..... 6 Acute with General Spreading Peritonitis, 1 died..... 54 with Abscess, 0 died..... 27 others, 2 died.....	17	170 (11 died.)	1,384

## ROOSEVELT HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1904....	4,236	213 8 Catarrhal..... 57 Acute Appendicitis, 5 died... 15 Gangrenous, 4 died..... 41 with Abscess, 2 died..... 69 Chronic, 1 died..... 5 Appendicular Colic..... 2 Appendicitis and movable kidney..... 1 Acute Appendicitis and Acute Pancreatitis..... 5 Appendicitis.....	12	220 (12 died.)	1,897
1905....	4,034	223 45 "Appendicitis," 2 died..... 7 Gangrenous Appendicitis, 1 died..... 31 Acute Appendicitis..... 22 Acute Appendicitis with Spreading Peritonitis, 4 died. 9 with General Peritonitis, 7 died. 27 Chronic..... 56 Appendicitis with Abscess, 5 died..... 24 Catarrhal.....	19	220 (15 died.)	2,092
1906....	4,404	201 14 Appendicitis..... 2 Appendicular Colic..... 54 Acute Appendicitis, 2 died... 18 Subacute Appendicitis..... 48 Chronic Appendicitis..... 48 Appendicitis with Abscess, 2 died..... 7 Appendicitis with General Peritonitis, 5 died..... 10 Acute with spreading Peritonitis, 5 died.....	14	196 (16 died.)	1,959



## ROOSEVELT HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1900 and after.	27,064	1,223 .....	104	1,231	8,952
Before 1900.	31,983	689 .....	96	679	13,062
	59,047	1,912 .....	200	1,910	22,014

REPORTS OF  
GERMAN HOSPITAL,  
PHILADELPHIA, PA.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1891....	1,568	Medical Report: 1 Typhlitis.....	0	0	151
1892....	1,646	Medical Report: 3 Appendicitis.....	0		
		Surgical Report:			
		5 Appendicitis, perforative.....	4	5	425
		2 Typhlitis.....		(4 died.)	
		(No operation.)		(Abdominal Section.)	
1893....	1,769	Medical Report:		1	
		2 Perityphlitis (1 died).	1	(Abscess incised.)	
		1 Appendicitis.....			
		Surgical Report:		5	303
		7 Appendicitis.....		(1 died.)	
				(Abdominal Section.)	
1894....	1,885	Medical Report: 5.			
		3 Acute.....			
		2 Chronic.....			
		Surgical Report: 53.		13 Acute (6 died).	386
		15 Acute (6 died).....	6	39 Chronic.	
		38 Chronic (0 died).....			
1895....	1,882	Medical Report: 12.			
		8 Acute.....			
		4 Chronic.....			
		Surgical Report: 95.	7	10 Acute (5 died).	387
		14 Acute (3 died).....		71 Chronic (2 died).	
		81 Chronic (4 died).....			
1896....	2,026	Medical Report: 8			
		3 Acute.....			
		5 Chronic.....			
		Surgical Report: 144	12	49 Acute (7 died).	562
		56 Acute (9 died).....		81 Chronic (3 died).	
		88 Chronic (3 died).....			

## GERMAN HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1899....	2,404	Medical Report: 8 5 Acute. .... 3 Chronic. .... Surgical Report: 223 109 Acute (13 died)... 114 Chronic (1 died)...	14	102 Acute (13 died). 98 Chronic (1 died).	822
1900....	2,714	Medical Report: 13(8 died) Surgical Report: 290 167 Acute (28 died)... 123 Chronic (1 died)...	37	2 (Appendicitis, Abscess.) (Abdominal Section.) 144 Acute (26 died). 124 Chronic (1 died).	937
1902...	2,596	Medical Report: 3 1 Acute 2 Chronic ..... Surgical Report: 447 290 Acute (38 died)... 157 Chronic (1 died)...	39	284 Acute (37 died). 153 Chronic (1 died).	1,210
1903....	2,974	Medical Report: 3 2 Acute. .... 1 Chronic..... Surgical Report: 498 298 Acute (23 died)... 200 Chronic (0 died)...	23	285 Acute (22 died). 190 Chronic (0 died).	1,374
1904....	2,647	Medical Report: 4 2 Acute..... 2 Chronic ..... Surgical Report: 484 323 Acute (30 died)... 161 Chronic (2 died)...	32	304 Acute (25 died). 155 Chronic (2 died).	1,447
1905....	2,973	Medical Report: 4 4 Acute (1 died) .... Surgical Report: 530.... 308 Acute (35 died)... 222 Chronic (0 died)...	36	302 Acute (33 died). 211 Chronic.	1,595

## GERMAN HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1906....	3,376	Medical Report: 2 1 Acute..... 1 Chronic..... Surgical Report: 617 342 Acute (18 died).... 275 Chronic.....	18	329 Acute (15 died). 266 Chronic.	1,772
1900 and after.	17,280	2,895.....	185	2,749 (162 died).	8,635
Before 1900.	13,180	569.....	44	475 (42 died).	2,885
	30,460	3,464.....	229	3,224 (204 died).	11,520

## CASES 1900 AND AFTER.

	Acute.	Died.	Chronic.	Died.
1900....	180	28	123	1
1902....	291	38	159	1
1903....	300	23	201	
1904....	325	30	163	2
1905....	312	35	222	
1906....	343	18	276	
	1,751	172	1,144	4
	(60%)	(9.8%)	(40%)	(3%)
	(of all deaths.)			

1891....	1	....	....	....
1892....	10	4	....	....
.....	10	1	....	....
.....	18	6	40	0
.....	22	3	85	4
.....	59	9	93	3
.....	114	13	117	1
	(41%) 234	(15.3%) 36	(59%) 335	(2.3%) 8
	1,751	172	1,144	4
	1,985	208	1,479	12
	(57%)	(10.4%)	(43%)	(.8%)

## OPERATIONS 1900 AND AFTER.

	Acute.	Died.	Chronic.	Died.
1900....	146	26	124	1
1902....	284	37	153	1
1903....	285	22	190	
1904....	304	25	155	2
1905....	302	33	211	
1906....	329	15	266	
	1,650	158	1,099	4
		(9%)		

## BEFORE 1900.

1892....	5	4	...	..
1893....	5	1	1	..
1894....	13	6	39	..
1895....	10	5	72	2
1896....	49	7	81	3
1899....	102	13	98	1
	184	36 (19%)	291	6
	1,650	158	1,099	4
	1,834	194	1,390	10
		(10.5%)		(.7%)
1834....	Acute, 194			
1390....	10			
	3,224		204 (6.3%)	

REPORTS OF  
ST. LUKE'S HOSPITAL,  
NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Operations.	Total No. of All Operations.
1893 . . . .	2,122	16 13, 2 died, Acute . . . . . 1, 0 died, Recurrent . . . . . 2, 1 died, Chronic . . . . . 3 died.	10 (2 died) 1 (1 died)	517
1894 . . . .	2,300	38 13, 0 died, Acute . . . . . 5, 0 died, Chronic . . . . . 11, 3 died, Perforative . . . . . 9, 0 died, Catarrhal . . . . . 3 died.	13 5 11 (3 died) 7 36 (3 died)	650
1895 . . . .	1,870	17 10, 1 died, Acute . . . . . 5, 4 died, Perforative . . . . . 2, 0 died, Catarrhal . . . . . 5 died.	9 (1 died) 5 (4 died) 1 15 (5 died)	452
1896 . . . .	1,439	38 16, 2 died, Acute . . . . . 5, 0 died, Chronic . . . . . 1, 1 died, Perforative . . . . . 6, 1 died, Catarrhal . . . . . 4 died.	15 (2 died) 5 1 (1 died) 4 (2 died) 25 (4 died)	481
1897 . . . .	2,444	56 3, 0 died, Recurrent . . . . . 15, 3 died, Acute . . . . . 8, 0 died, Chronic . . . . . 14, 0 died, Catarrhal . . . . . 3, 3 died, Gangrenous . . . . . 13, 2 died, Perforative . . . . . 8 died.	3 13 (3 died) 8 14 3 (3 died) 13 (2 died) 54 (8 died)	852

## ST. LUKE'S HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Operations.	Total No. of All Operations.
1898....	2,656	51 10, 0 died, Recurrent..... 7, 0 died, Acute ..... 2, 0 died, Chronic ..... 5, 0 died, Catarrhal..... 2, 1 died, Gangrenous..... 25, 6 died, Perforative..... 7 died.	10 7 2 5 2 (1 died) 25 (6 died) 51 (7 died)	1,068
1899....	2,474	106 36, 0 died, Recurrent..... 18, 0 died, Acute ..... 7, 0 died, Chronic..... 15, 0 died, Catarrhal..... 3, 0 died, Gangrenous ..... 26, 12 died, Perforative..... 1, Suppurative Acute..... 12 died.	35 18 7 12 3 26 (12 died) 1 (0 died) 102 (12 died)	1,056
1900....	2,370	129 38, 0 died, Recurrent..... 1, 0 died, Acute ..... 11, 1 died, Chronic..... 17, 0 died, Catarrhal..... 6, 2 died, Gangrenous ..... 10, 6 died, Perforative..... 46, 9 died, Suppurative ..... 18 died.	38 1 11 (1 died) 14 6 (2 died) 10 (6 died) 46 (9 died) 126 (18 died)	1,166
1901....	2,889	163 17, 0 died, Acute ..... 66, 0 died, Chronic..... 5, 0 died, Catarrhal..... 4, 0 died, Gangrenous ..... 4, 0 died, Perforative ..... 27, 0 died, Recurrent..... 20, 2 died, Suppurative Acute.. 17, 0 died, with Abscess..... 3, 3 died, with General Peritonitis..... 5 died.	17 65 5 3 4 27 20 (2 died) 17 3 (3 died) 161 (5 died)	1,281

## ST. LUKE'S HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Operations.	Total No. of All Operations.
1902....	2,637	161		1,383
		19, 1 died, Acute .....	19 (1 died)	
		84, 2 died, Chronic.....	82 (2 died)	
		4, 0 died, Acute Catarrhal....	4	
		11, 0 died, Catarrhal.....	11	
		4, 0 died, Gangrenous .....	4	
		3, 0 died, Recurrent .....	3	
		18, 2 died, Suppurative .....	18 (2 died)	
		5, 0 died, General Peritonitis..	5	
		13, 0 died, Abscess .....	13	
		5 died.	159 (5 died)	
1903....	2,642	215		1,584
		55, 4 died, Acute Catarrhal....	53 (4 died)	
		46, 6 died, Acute Suppurative..	46 (6 died)	
		5, 0 died, " "		
		with perforation....	5	
		8, 1 died, Gangrenous .....	8 (1 died)	
		95, 0 died, General Peritonitis,		
		(?) probably Chronic	95 (0 died?)	
		1, 0 died, Recurrent. ....	1	
		5, 0 died, Subacute.....	5	
		(4 with abscess)		
		11 died.	213 (11 died)	
1904....	2,745	203		.....
		22, 2 died, Acute Catarrhal....	19 (2 died)	
		35, 2 died, " Suppurative..	35 (2 died)	
		2, with perforation.....	2 (0 died)	
		27, with Gangrene, 3 died.....	27 (3 died)	
		7, 5 died, with General Perito-		
		nititis.....	7 (5 died)	
		20, Recurring.....	17	
		13, Subacute.....	9	
		14, 1 died, Subacute, with Ab-		
		scsess.....	14 (1 died)	
		63, Chronic.....	60 (0 died)	
		14 died.	191 (13 died)	

## ST. LUKE'S HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Operations.	Total No. of All Operations.
1905....	2,809	175		1,508
		11, Acute Catarrhal.....	7	
		20, 4 died, Acute Suppurative..	20 (4 died)	
		2, with Perforation.....	2	
		29, 1 died, with Gangrene.....	29 (1 died)	
		11, 7 died, with General Peritonitis .....	11 (7 died)	
		89, Chronic .....	89	
		7, Subacute.....	7	
		5, with Abscess.....	5	
		1, Appendiceal Adhesions. ....	1	
		13 died.	171 (12 died)	
1906....	3,170	291		1,650
		2, Appendicular Colic.....	0	
		15, Acute Catarrhal.....	13 ( 2 died)	
		25, 2 died, Acute Suppurative..		
		4, with Perforation.....	4	
		45, 3 died, Acute Gangrenous ..	45 ( 3 died)	
		21, 11 died, with General Peritonitis .....	21 (11 died)	
		35, Subacute, 1 died.....	34 ( 0 died)	
		14, 3 died, with Abscess.....	14 ( 3 died)	
		128, Chronic.....	127 ( 0 died)	
		19 died.	258 (19 died)	
1907....	3,467	140		1,698
		10, 0 died, Acute Catarrhal.....	10	
		12, Suppurative, 1 died.....	12 (1 died)	
		26, 3 died, Gangrenous.....	26 (3 died)	
		1, Perforative.....	1	
		21, with Abscess.....	21	
		18, 2 died, with General Peritonitis ....	18 (2 died)	
		15, Subacute.....	15	
		37, Chronic.....	37	
		6 died.	140 (6 died)	



## ST. LUKE'S HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Operations.	Total No. of All Operations.
1900 and after	22,729	1,477 ( 91 died) .....	1,419 .....	10,270
Before 1900	15,305	322 ( 42 died) .....	294 .....	5,076
	38,034	1,799 (133 died) .....	1,713 .....	15,346

## 1900 and After.

## CASES.

*Severe.*Suppurative ; Gangrenous ;  
Perforative ; Abscess.*Mild.*Subacute ; Acute Catarrhal ;  
Chronic ; Appendicular Colic.

1900	62	(17 died)	67	(1 died)
1901	48	( 5 died)	115	
1902	40	( 2 died)	131	(6 died)
1903	59	( 7 died)	61	(4 died)
1904	71	(10 died)	132	(3 died)
1905	67	(12 died)	108	
1906	109	(19 died)	130	(2 died)
1907	78	( 6 died)	52	
	534 (38%)	78 (14%)	846	16 (68%)

## Before 1900.

1893			16	(3 died)
1894	20	( 3 died)	18	
1895	5	( 4 died)	12	(1 died)
1896	7	( 2 died)	21	(2 died)
1897	3	( 3 died)	40	(3 died)
1898	27	( 7 died)	24	
1899	30	(12 died)	76	
	92 (30%)	31 (33%)	207	9 died (43%)

REPORTS OF  
NEW YORK HOSPITAL,  
NEW YORK CITY.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1891....	4,711	12.....	2	15 (3 died)..	732
1893....	4,764	37.....	4	22 (1 died)..	637
1894....	4,878	53.....	5	39 (6 died)..	946
1895....	5,320	50.....	6	41 (8 died)..	1,136
1896....	5,405	81.....	11	17 (2 died)..	1,280
1897....	5,196	71.....	12	58 (8 died)..	1,267
1898....	5,898	89.....	9	76 (10 died)..	1,128
1899....	6,060	102.....	19	80 (15 died)..	1,205
1900....	6,625	110.....	16	110 (16 died)..	1,301
1901....	6,375	128.....	12	106 (10 died)..	1,437
1902....	7,413	173.....	9	143 (10 died)..	1,622
1903....	7,257	227.....	14	196 (15 died)..	1,680
1904....	7,167	229.....	21	201 (17 died)..	1,680
1905....	8,145	232.....	25	211 (23 died)..	1,654
1906....	9,377	182.....	8	182 (10 died)..	1,639
1900 and after.	52,359	1,281.....	103	1,149 (101 died)..	11,013
Before 1900.	37,521	495.....	68	368 (53 died)..	8,332
	89,880	1,776.....	173	1,517 (154 died)..	19,345

REPORTS OF  
ST. FRANCIS HOSPITAL,  
NEW YORK CITY.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1894....	2,488	13 10 died.....	10	21	330
1895....	2,382	15 7 died.....	7	12	417
1896....	2,221	19 2 died.....	2	11	264
1897....	2,221	17 8 Suppurative, 0 died..... 8 Catarrhal, 0 died..... 1 Recurrent, 0 died.....	0	14 (0 died.)	310
1898....	2,532	17 3 Catarrhal, 0 died.. .. 12 Suppurative, 0 died..... 2 Recurrent, 1 died.....	1	14 (0 died.)	311
1900....	2,829	29 8 Catarrhal, 0 died..... 13 Suppurative, 4 died..... 6 Gangrenous, 2 died..... 2 Recurrent, 0 died.....	6	18 (3 died.)	409
1901....	2,461	28 9 Catarrhal, 0 died..... 15 Suppurative, 2 died..... 4 Gangrenous, 2 died.....	4	27 (3 died.)	490
1902....	2,394	19 9 Catarrhal, 0 died.... 7 Suppurative, 3 died..... 3 Gangrenous, 1 died.....	4	?	349

## ST. FRANCIS HOSPITAL—Continued.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1903....	2,563	46 15 Catarrhal, 1 died..... 23 Suppurative, 5 died..... 8 Gangrenous, 1 died.....	7	26 (2 died.)	913
1906....	1,432	44 1 Adhesial..... 25 Catarrhal..... 16 Suppurative.... 2 Gangrenous.....	0	43 (0 died.)	477
1900 and after.	11,679	166 .....	21	114	2,638
Before 1900.	11,844	81 .....	20	72	1,632
	23,423	274 .....	41	186	4,270

REPORTS OF  
J. HOOD WRIGHT MEMORIAL HOSPITAL,  
NEW YORK, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1896....	975	17 .....	9	16	313
1897....	951	10 .....	2	14	198
1898....	1,106	32 .....	4	30	350
1899....	1,081	23 .....	2	23	484
1900....	1,276	48 .....	7	(1 died.) 39	491
1901....	1,176	30 9 Acute, 0 died..... 12 Gangrenous..... 4 Abscess, 0 died..... 4 General Peritonitis, 1 died..... 1 Chronic, 0 died.....	1	27 (1 died.)	426
1902....	945	51 15 Acute..... 13 Acute Gangrenous ... 15 Acute Abscess..... 7 Acute with General Peritonitis..... 1 Chronic.....	0	43 (0 died.) 5 Acute..... 3 Interval..... 14 Acute Gangrenous. 16 " Abscess.... 4 " General Peritonitis... 1 Recurrent.....	552

## J. HOOD WRIGHT MEMORIAL HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1903....	1,031	<p>52</p> <p>9 Acute Catarrhal. ....</p> <p>7 Acute Gangrenous....</p> <p>16 Acute Gangrenous, Abscess.....</p> <p>13 Acute Gangrenous, General Peritonitis, 7 died.....</p> <p>2 Acute, Gangrenous, General Peritonitis and intestinal obstruction, 1 died....</p> <p>1 Acute Gangrenous, Typhoid Fever.....</p> <p>1 Multiple Abscess Liver, 1 died.....</p> <p>3 Chronic.....</p> <p>9 died.</p>	<p>40 (6 died)</p> <p>5 Acute.....</p> <p>1 Acute Abscess.....</p> <p>11 " Gangrenous...</p> <p>3 " Gangrenous with spreading peritonitis.....</p> <p>7 Acute Gangrenous with General Peritonitis, 3 died....</p> <p>18 Acute Gangrenous with Abscess, 3 died.....</p> <p>4 Chronic.....</p> <p>1 Subacute.....</p>	466
1904....	1,262	<p>42</p> <p>11 Acute Catarrhal.....</p> <p>5 Acute Gangrenous....</p> <p>1 Acute Gangrenous, General Peritonitis, 1 died.....</p> <p>5 Chronic.....</p> <p>9 Gangrenous and Abscess.....</p> <p>1 Gangrenous, Abscess and acute intestinal obstruction.....</p> <p>7 Gangrenous and General Peritonitis, 1 died.</p> <p>1 Gangrenous, Abscess, Septicaemia, 1 died.</p> <p>1 Recurrent.....</p> <p>1 Relapsing.....</p> <p>3 died.</p>	<p>33</p> <p>5 Acute, 1 died.....</p> <p>4 Acute Abscess.....</p> <p>6 Acute Gangrenous...</p> <p>2 Acute Gangrenous and spreading Peritonitis, 1 died.....</p> <p>8 Acute Gangrenous, Abscess.....</p> <p>1 Acute Gangrenous, Abscess and advancing Peritonitis....</p> <p>7 Chronic.....</p>	423

## J. HOOD WRIGHT MEMORIAL HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1905....	1,608	75 31 Acute Catarrhal..... 14 Acute Gangrenous, 1 died..... 6 Acute Gangrenous, Abscess..... 1 Acute Gangrenous, Abscess and Delirium Tremens, 1 died... 2 Acute Gangrenous and Empyema..... 5 Acute Gangrenous, General Peritonitis, 4 died..... 15 Chronic..... 1 Chronic Gangrenous and General Peritonitis, 1 died..... 7 died.	71 (7 died). 24 Acute Catarrhal..... 1 Traumatic..... 14 Acute Gangrenous, 1 died..... 8 Acute Gangrenous and Abscess..... 3 Acute Gangrenous and advancing peritonitis 1 Acute Gangrenous, Delirium Tremens, 1 died..... 4 Acute Gangrenous, General Peritonitis, 4 died..... 1 Acute Gangrenous, Pneumonia, 1 died. 1 Acute Gangrenous, Partial Intestinal Obstruction, 1 died. 11 Chronic..... 2 Recurrent..... 1 Ulcerative.....	396
1906....	1,569	63 18 Acute Catarrhal..... 12 Acute Gangrenous... 12 Acute Gangrenous and Abscess, 1 died... 2 Acute Gangrenous, Abscess and advancing peritonitis, 1 died.. 2 Acute Gangrenous and advancing peritonitis..... 4 Acute Gangrenous, General Peritonitis, 3 died..... 1 Interval..... 1 Recurrent..... 6 died.	65 (5 died). 25 Acute Catarrhal..... 2 " Suppurative... 18 Acute Gangrenous, 1 died..... 9 Acute Gangrenous, Abscess, 1 died... 3 Acute Gangrenous, General Peritonitis, 2 died..... 4 Chronic..... 3 Interval..... 1 Appendix wound infected incision, drainage, 1 died.....	418

## J. HOOD WRIGHT MEMORIAL HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1907....	1,331	50 15 Acute Catarrhal.... 1 Acute Catarrhal, Tubercular Peritonitis. 9 Gangrenous..... 11 " with Abscess..... 1 Gangrenous with Broncho Pneumonia, 1 died..... 4 Gangrenous with Septicaemia, 1 died.... 2 Gangrenous with Pyosalpinx..... 1 Recurrent..... 2 Acute Suppurative... 2 died.	57 (2 died). 15 Acute Catarrhal.... 3 Acute Suppurative.. 15 Acute Gangrenous.. 5 Acute Gangrenous, Abscess..... 1 Acute Gangrenous with advancing Peritonitis..... 3 Acute Gangrenous, General Peritonitis, 1 died..... 1 Acute Gangrenous, Septicaemia, 1 died.. 5 Chronic.....	397
1900 and after.	10,198	411.....	Died. 35 332.....	3,569
Before 1900.	4,113	82.....	17 83.....	1,345
	14,311	493.....	52 415.....	4,914



REPORTS OF  
HARTFORD HOSPITAL,  
HARTFORD, CONN.

YEAR.	Total No. of Patients.	NO. OF CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1893....	1,169	7.....	0	2	320
1894....	1,151	11.....	1	9	398
1895....	1,295	22.....	1	16	480
1896....	1,563	47.....	3	44	507
1897....	1,558	55.....	5	51	508
1898....	1,622	46.....	6	34	588
1899....	1,714	40.....	4	30	678
1900....	2,030	55.....	5	44	810
1901....	2,012	42 2 with General Peritonitis. ....	3	40	772
1902....	2,116	89 61 Catarrhal..... 28 Suppurative.....	12	73	741
1903....	2,388	107 78 Catarrhal..... 29 Suppurative.....	5	95	718
1904....	1,992	106.....	3	78	

## HARTFORD HOSPITAL—Continued.

YEAR.	Total No. of Patients.	NO OF CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1905....	1,887	107 103 Acute, 1 died..... 4 " with General Peritonitis, 3 died.....	4	103	871
1906....	2,074	143 140 Acute; 2 died..... 3 " with General Peritonitis, 3 died.....	5	134	747
1907....	2,491	174 160 Acute, 1 died..... 14 " with General Peritonitis, 10 died.....	13	193	939
1900 and after.	16,990	823.....	50	745	5,598
Before 1900.	10,072	228.....	20	186	3,856
	27,062	1,051 .....	70	931	9,454

# REPORTS OF AUGUSTANA HOSPITAL,

A. J. OCHSNER,  
*Surgeon-in-Chief.*

CHICAGO, ILL.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1898....	1,225	53 (2 died).....	53 (2 died)	735
1899....	.....	103 (3 died).....	103 (5 died)	1,199
1900....	1,506	142 50, 1 died, Acute, with Perforation or Gangrene... 9, 4 died, Acute with General Peritonitis..... 57, Chronic and Recurrent..... 27, Implicating Adnexa..... 5 died.	142 (5 died)	1,311
1901....	1,589	248 8, 5 died, Acute, with General Peritonitis..... 42, 2 died, Acute, with Perforation or Gangrene... 38, Acute, without Perforation... 99, 1 died, Chronic..... 40, 1 died, Implicating Adnexa.. 12, Appendicitis and Cholecystitis 8, " " Cholelithiasis 1, " " Movable Kidney..... 9 died.	246 (8 died) 1 Chronic and 1 Acute with General Peritonitis (not operated)	1,398

## AUGUSTANA HOSPITAL — Continued.

YEAR	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1902....	1,793	<p>311</p> <p>44, Acute, with Perforation or Gangrenous.....</p> <p>41, 1 died, Acute, without Perforation.....</p> <p>18, 3 died, Acute, with General Peritonitis.....</p> <p>94, Chronic and Recurrent.....</p> <p>93, 2 died, Implicating Adnexa..</p> <p>18, Appendicitis and Cholecystitis</p> <p>2,       "       "       Movable Kidney....</p>	<p>311</p> <p>(6 died)</p>	1,567
1903....	1,858	<p>348</p> <p>81, 5 died, Acute, with Perforation or Gangrenous</p> <p>49, 2 died, Acute, without Perforation.....</p> <p>8, 5 died, Acute, with General Peritonitis.....</p> <p>105, 1 died, Chronic or Recurrent</p> <p>8, Complicated with Inguinal Hernia.....</p> <p>79, Implicating Adnexa.....</p> <p>15, Appendicitis and Cholecystitis, 3 died.....</p> <p>3, Appendicitis and Movable Kidney.....</p> <p>16 died.</p>	<p>348</p> <p>(16 died)</p>	1,572

## AUGUSTANA HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1904....	1,739	<p>358</p> <p>54, 1 died, Acute, with Perforation or Gangrenous</p> <p>77, Acute, without Perforation..</p> <p>8, 3 died, Acute, with General Peritonitis.....</p> <p>108, Chronic and Recurrent.....</p> <p>5, Appendicitis, complicated by Inguinal Hernia....</p> <p>71, 1 died, Implicating Adnexa-Appendicitis.....</p> <p>30, 3 died, Appendicitis and Cholecystitis.....</p> <p>2, Appendicitis and Movable Kidney.....</p> <p>8 died.</p>	<p>358</p> <p>(8 died)</p>	1,551
1905....	2,205	<p>302</p> <p>74, 3 died, Acute, with Perforation or Gangrenous</p> <p>16, 4 died, Acute, with General Peritonitis.....</p> <p>66, 3 died, Acute .....</p> <p>166, 3 died, Chronic and Recurrent</p> <p>10, Complicated with Inguinal Hernia.....</p> <p>25, Involving Adnexa .....</p> <p>20, Appendicitis and Cholecystitis</p> <p>3, 1 died, Appendicitis, with Movable Kidney....</p> <p>2, Appendicitis-Tuberculosis....</p> <p>5, 1 died, Carcinoma of Appendix</p> <p>15, Appendicitis Chronic, with Ulceration of Stomach.</p> <p>15 died.</p>	302	1,802

## AUGUSTANA HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	OPERATIONS.	Total No. of All Operations.
1906....	2,353	<p>474</p> <p>168, 2 died, involving Adnexa....</p> <p>59, 5 died, Acute with Abscess...</p> <p>2, Acute Perforated.....</p> <p>60, 1 died, Acute.....</p> <p>158, Chronic.....</p> <p>4, 1 died, Acute Gangrenous...</p> <p>15, 11 died, Acute with Diffuse Peritonitis.....</p> <p>4, Appendicitis, complicated with Gastric Ulcer.....</p> <p>2, Appendicitis, complicated with Intestinal Obstruction</p> <p>2, Appendicitis-Tubercular.....</p> <p>20 died.</p>	<p>474</p> <p>(20 died)</p>	1,902
1900 and after	13,043	<p>2,175</p> <p>(79 died) .....</p>	<p>2,173</p> <p>(78 died)</p>	11,203
Before 1900	2,596	<p>156</p> <p>( 5 died) .....</p>	<p>156</p> <p>( 5 died)</p>	2,510
	15,639	<p>2,331</p> <p>(84 died) .....</p>	<p>2,329</p> <p>(83 died)</p>	13,613

REPORTS OF  
ST. MARY'S HOSPITAL,  
ROCHESTER, MINN.

YEAR.	TOTAL NO. OF PATIENTS.	Out-Patients.	NO. CASES APPENDICITIS.	Died.	Operations.	Total No. of All Operations.
1895	661 257 Medical Patients, 6 died..		11 6 Suppurative ..... 5 Chronic.....		6 5	752 (111 Abdominal)
1896	870 210 Medical Patients, 2 died..		Medical Report: 2 Acute ..... Surgical Report: 21 15 Suppurative..... 6 Chronic Relapsing...	1	15 5	881 (196 Abdominal)
1897	913 210 Medical Patients, 3 died..		Medical Report: 4 Acute ..... Surgical Report: 42 (1 died) 14 Suppurative..... 28 Subacute and Chronic		14 28	966 (251 Abdominal)
1898	978 123 Medical Patients, 10 died.		Medical Report: 2 Acute ..... Surgical Report: 47 (1 died) 26 Acute ..... 21 Chronic.....	1	26 21	1,130 (322 Abdominal)
1899	1,085 170 Medical Patients, 5 died..	151	Medical Report: 2 Acute ..... 1 Chronic..... Surgical Report: 94 (2 died) 42 Acute ..... 52 Chronic and Recurrent	2	42 52	1,619 (470 Abdominal)
	1,236 total patients operated...					
1900	1,166 47 Medical Patients, 6 died..	247	Medical Report: 1 Acute ..... Surgical Report: 180 (4 died) 73 Acute and Suppurative 107 Chronic and Recurrent	4	73 107	1,821 (612 Abdominal)
	1,413 total patients operated...					

## ST. MARY'S HOSPITAL—Continued.

YEAR.	TOTAL NO. OF PATIENTS.	Out-Patients.	NO. CASES APPENDICITIS.	Died.	Operations.	Total No. of All Operations.
1901	1,422 28 Medical Patients, 7 died..	345	Medical Report : 1 Acute (0 died)..... Surgical Report : 300. 125 Acute and Suppurative 175 Chronic.....	4	125 172	1,974 (841 Abdominal)
	1,767 total Patients operated...					
1902	1,543 20 Medical Patients, 6 died..	476	Medical Report : 1 Acute..... Surgical Report : 342. 143 Acute and Suppurative 2 Acute and General Peritonitis..... 197 Chronic.....	1 3	143	2,420 (1074 Abdominal)
	2,019 total Patients operated...				197	
1903	1,777 20 Medical Patients, 9 died...	523	Medical Report : 3. 3 with General Peritonitis..... Surgical Report: 403(11 died) 151 Acute and Suppurative 252 Chronic.....	3 7 1	151 252	2,640 (1302 Abdominal)
	2,300 total Patients operated...					
1904	2,093 14 Medical Patients, 4 died..	408	526 131 Acute and Suppurative 8 with General and Septic Peritonitis.... 387 Chronic.....	2 3	131 8 387	3,131 (1788 Abdominal)
	2,501 total Patients operated...					
1905	2,727 20 Medical Patients, 10 died.	433	Medical Report : 2 (0 died) Surgical Report: 754(10 died) 276 Acute, with Suppuration..... 11 Acute, with General Septic Peritonitis. 467 Chronic.....	2 6	276 11 467	3,883 (2157 Abdominal)
	3,160 total Patients operated...					



## ST. MARY'S HOSPITAL — Continued.

YEAR.	TOTAL NO. PATIENTS.	Out-Patients.	NO. CASES APPENDICITIS.	Died.	Operations.	Total No. of All Operations.
1906	3,299 13 Medical Patients, 2 died..	616	Medical Report: 2 (0 died) Surgical Report: 924 (8 died) 371 Acute and Suppurative 10 Acute, with Diffuse Peritonitis.....	2	371	4,770 (2750 Abdominal)
	3,915 total Patients operated...		543 Chronic.....	3 1	10 543	
1907	3,748 6 Medical Patients, not operated, 6 died....	1063	Medical Report: 4. Surgical Report: 1,141 (7 died) 433 Acute and Suppurative 6 Acute, with Diffuse Peritonitis.....	1 5 1	433 6	5,523 (3215 Abdominal)
	4,811 total Patients operated...		702 Chronic.....		702	
1900 and after.	21,886		4,784 (49 died)		4765 (44 died)	26,162
Before 1900	4,658		226 ( 5 died)		215 ( 5 died)	5,348
	26,544		5,010 (54 died) Including 25 from Medical Report with 5 deaths.		4980 (49 died)	31,510

REPORTS OF  
ST. JOSEPH'S HOSPITAL,  
PATERSON, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1891....	806	1.....	0	1 (1 died)...	80
1892....	823	2.....	0	0 .....	124
1893....	846	5.....	0	2 (0 died)...	108
1895....	1,143	17.....	5	9 (5 died)...	274
1896....	1,305	13.....	0	10 (0 died)...	335
1897....	1,500	12.....	2	7 (2 died)...	289
1898....	1,559	25.....	4	24 (4 died)...	434
1899....	1,474	33.....	10	21 (5 died)...	411
1900....	1,980	42.....	10	37 (7 died)...	469
1901....	1,685	37.....	8	34 (8 died)...	457
1903....	1,357	59.....	8	46 (5 died)...	332
1904....	1,466	51.....	7	41 (5 died)...	445
1905....	1,410	29.....	7	28 (7 died)...	414
1906....	1,486	27.....	3	23 (3 died)...	287
1900 and after.	9,384	243.....	43	209 (35 died)...	2,404
Before 1900.	9,456	108.....	21	73 (17 died)...	2,055
	18,840	351.....	64	282 (52 died)...	4,459

REPORTS OF  
MARGARET PILLSBURY GENERAL HOSPITAL,  
CONCORD, N. H.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1894....	170	1.....	0	0	81
1895....	223	2.....	1	2	36
1896....	216	1.....	0	0	48
1897....	203	2.....	0	2	56
1898....	251	3.....	0	3	53
1899....	213	6.....	0	4	73
1900....	303	6.....	0	2	79
1901....	239	7.....	0	5	78
1902....	352	9.....	0	3	76
1904....	379	13.....	0	9	87
1905....	339	17.....	0	7	100
1906....	440	29.....	0	16	116
1900 and after.	1,172	81.....	0	42	527
Before 1900.	1,290	15.....	1	11	347
	2,462	96.....	1	53	874

REPORTS OF  
RHODE ISLAND HOSPITAL,  
PROVIDENCE, R. I.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1891..	1,061	Surgical Report: 3 Perityphilitis.....	0		243
1892..	1,322	Medical Report: 2 "Appendicitis"..... Surgical Report: 4 3 Perityphilitis..... 1 " followed by Septic Peritonitis.		1	324
1893..	1,476	Medical Report: 2 Surgical Report: 5 3 "Appendicitis"..... 1 with Abscess of Liver... 1 with Erysipelas.....		2	363
1894..	1,730	Surgical Report: 14 12 "Appendicitis"..... 1 with Abscess of Liver. 1 Recurrent.....	2	16 (2 died.)	407
1895..	2,046	Medical Report: 5 Surgical Report: 28 23 "Appendicitis"..... 4 Recurrent..... 1 with Suppuration.....	1	19 (2 died.)	743
1896..	2,283	Medical Report: 4 Surgical Report: 25	6	14	685

## RHODE ISLAND HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1897..	2,421	Medical Report: 6 Surgical Report: 29 27 "Appendicitis" ..... 2 " with General Peritonitis (2 died).		22 (5 died) 4 General Peritonitis (4 died). 8 Abscess (1 died). 10 Removed Appendix.	760
1898..	2,516	Medical Report: 5 Surgical Report: 51 4 Catarrhal..... 33 Suppurative (3 died).. 3 Chronic..... 1 with Fecal Fistula.... 10 with General Peritonitis (8 died).....	11	41 (11 died) 19 Abscess incised.  12 with General Peritonitis (10 died). 10 removal of Appendix (1 died).	792
1899..	2,750	Medical Report: 1 Surgical Report: 49 17 Catarrhal..... 1 Chronic..... 6 Recurrent..... 1 " with Abscess. 18 " with Abscess, (1 died). 6 with General Peritonitis (6 died).	7	35 (7 died.) 13 Appendicectomy. 15 Abscess incised (3 died). 4 with General Peritonitis, Laparotomy (4 died). 1 "Appendicitis," Explorative Laparotomy.	846
1900..	3,185	Medical Report: 3 Surgical Report: 65 15 Catarrhal..... 36 with Abscess (4 died). 7 Acute Perforative (6 died). 7 Chronic.....	10	61 (10 died.) 14 Appendicectomy.  4 with Abscess, Appendicectomy (1 died). 29 Abscess incised (1 died). 11 Perforative (8 died). 3 Chronic.	900

## RHODE ISLAND HOSPITAL—Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1901..	3,465	Medical Report: 3 Surgical Report: 94 15 Catarrhal..... 20 Chronic (1 died).... 4 with Fecal Fistula (1 died)..... 13 with General Peritonitis (9 died)..... 35 Suppurative (5 died).. 6 Ulcerative (2 died).... 1 with double Salpingo-oophoritis .....	18	77 (12 died.) 19 with Abscess, drained (4 died). 50 Appendicectomy (7 died). 6 with General Peritonitis (1 died). 1 with Fecal Fistula. 1 with Salpingitis.	999
1902..	3,282	Medical Report: 1 Surgical Report: 105 25 Catarrhal (1 died).... 10 Chronic ..... 2 with Fecal Fistula .... 68 Suppurative (20 died).	21	108 (22 died.) 27 Abscess drained without Appendicectomy (3 died). 65 with Abscess drained and appendicectomy (11 died). 8 with General Peritonitis (5 died). 8 with Second Exploration (3 died)	1,182
1904..	3,973	Surgical Report: 143 29 Acute Catarrhal (1 died) 29 Chronic. .... 7 Gangrenous (4 died)... 42 Suppurative (9 died).. 36 Ulcerative (2 died)....	16	134 (19 died.) 23 Abscess incised and drained (7 died). 110 Appendicectomy (12 died). 1 Appendicectomy with Salpingo-oophorotomy.	1,726

## RHODE ISLAND HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1905..	4,261	Surgical Report: 177 1 with Fecal Fistula..... 2 with Inguinal Hernia.... 12 Acute..... 25 Acute Catarrhal... 1 Acute with Pelvic Abscess..... 1 Acute with Perinephritic Abscess..... 37 Chronic..... 1 Chronic with Axillary Oedentitis..... 2 Chronic with Fecal Fistula (1 died)..... 1 with General Peritonitis, Chronic (1 died)..... 10 Gangrenous (1 died).... 4 Gangrenous with General Peritonitis (4 died). ... 3 Sub-acute..... 11 Suppurative..... 3 Suppurative with General Peritonitis..... 51 Ulcerative (9 died)..... 8 Ulcerative with General Peritonitis. .... 1 Ulcerative with Multiple Abscess..... 1 Sinus Recurrent.....	16	131 (25 died.) 110 Appendicectomy (22 died). 21 Abscess incised and drainage (3 died).	2,475
1906..	4,487	Medical Report: 2 (2 died) Surgical Report: 169 9 Acute (1 died)..... 5 Acute with Abscess (1 died) 1 Acute with Abscess and Fecal Fistula..... 14 Acute Catarrhal..... 1 Acute Catarrhal with Pelvic Cellulitis.....	18	168 (19 died.) 24 Abscess incised and drainage (6 died). 61 Appendicectomy (2 died). 77 Appendicectomy with drainage (11 died).	2,130

## RHODE ISLAND HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1906..	4,487	6 Acute Gangrenous..... 1 Acute with General Peritonitis ..... 5 Acute Perforative..... 14 Acute Perforative with Abscess (2 died)..... 12 Acute Perforative with General Peritonitis (7 died)..... 1 Acute Perforative with General Peritonitis and Scarlet Fever..... 1 Acute Perforative with Perinphritic Abscess and Scarlet Fever (1 died)..... 41 Acute Ulcerative (1 died). 14 Acute Ulcerative with Abscess (1 died)..... 5 Acute Ulcerative with General Peritonitis (1 died) ..... 18 Chronic ..... 3 Chronic Catarrhal..... 1 Chronic with Chronic Salpingitis..... 1 Chronic with Cystic Ovary 1 Chronic with Fecal Fistula and General Miliary Tuberculosis..... 1 Chronic with Gastropnoxis. 1 Chronic Obliterative..... 4 Gangrenous with Abscess. 2 Gangrenous with General Peritonitis (1 died).... 1 Gangrenous with Perforation, General Peritonitis and Subphrenic Abscess. 4 Subacute Catarrhal..... 1 Suppurative .....	18	1 Appendicectomy with cholecystotomy. 2 Appendicectomy with double salpingo-oophorectomy. 1 Appendicectomy with drainage mesenteric cyst. 1 Appendicectomy with oophorectomy. 1 Appendicectomy with removal of mesenteric lymph glands.	2,130



## RHODE ISLAND HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES.	Died.	OPERATIONS.	Total No. of All Operations.
1907..	4,771	Medical Report: 1 Surgical Report: 205 5 Acute (0 died)..... 37 Acute with Abscess (3 died)..... 37 Acute Catarrhal (0 died).. 17 Gangrenous..... 1 Acute Gangrenous with Abscess..... 4 Acute with General Peritonitis (3 died)..... 20 Acute Perforative (4 died) 4 Acute Perforative with Abscess..... 4 Acute Perforative with General Peritonitis (2 died)..... 26 Acute Ulcerative..... 6 Acute Ulcerative with Abscess (1 died)..... 30 Chronic (1 died)..... 5 Chronic Catarrhal..... 5 Chronic Catarrhal with Chronic Salpingitis.... 2 Chronic with Cystic Ovary 1 Chronic with Retroversion of Uterus..... 1 Chronic with Tubercular Peritonitis..... 1 Gangrenous with Perforation and General Peritonitis and Subchronic Abscess..... 2 Subacute..... 1 Empyema of Appendix..	14	194 (15 died.) 27 Appendicitis, incision and drainage (5 died).  96 Appendicectomy (1 died). 2 Appendicectomy with curettage. 68 Appendicectomy with drainage (9 died). 1 Appendicectomy with Double Salpingo-oophorectomy.	2,197
1900 and after.	29,424	965.....	113	873 (122 died).	11,609
Before 1900.	17,605	233.....	30	150 (27 died).	5,167
	45,029	1,198.....	143	1,023 (149 died).	16,776

REPORTS OF  
ST. MICHAEL'S HOSPITAL,  
NEWARK, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1894..	1,814	5.....	1	3 (1 died)	756
1895..	1,505	13.....	0	5 (0 died)	754
1896..	1,489	8.....	3	4 (1 died)	763
1897..	1,860	14.....	5	8 (2 died)	774
1898..	2,016	9.....	3	8 (1 died)	993
1899..	2,151	21.....	3	4 (0 died)	838
1900..	2,223	31.....	3	23 (1 died)	942
1901..	2,342	30.....	1	20 (1 died)	968
1903..	2,193	29.....	4	21 (2 died)	1,501
1904..	2,347	32.....	6	22 (2 died)	1,532
1905..	3,073	48.....	8	39 (7 died)	837
1906..	2,135	41.....	2	32 (1 died)	1,238
1907..	2,188	51.....	4	44 (3 died)	1,086
1900 and after.	16,501	262.....	29	211 (17 died)	8,104
Before 1900.	10,835	70.....	15	32 (5 died)	4,878
	27,336	332.....	44	243 (22 died)	12,982

REPORTS OF  
ST. LUKE'S HOME AND HOSPITAL,  
UTICA, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of all Operations.
1895..	353	3.....	1	3	163
1896..	443	4.....	0	3	214
1897..	377	5.....	0	3	189
1898..	387	5.....	0	4	205
1899..	457	10.....	0	10	183
1900..	521	13.....	0	11	245
1901..	513	9.....	0	8	245
1902..	544	10.....	1	10	258
1903..	604	22.....	1	22	297
1904..	594	14.....	1	13	264
1905..	579	22.....	1	20	297
1906..	814	30.....	4	31	415
1907..	1,108	66.....	7	63	624
1900 and after.	5,277	186.....	15	178	2,645
Before 1900.	2,417	27.....	1	23	954
	7,694	213.....	16	201	3,599

REPORTS OF  
ORANGE MEMORIAL HOSPITAL,  
ORANGE, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1893..	795	5 .....	2	4 (1 died)	135
1894..	800	5 .....	2	0	136
1895..	784	11 .....	4	6 (4 died)	134
1896..	785	6 .....	2	4 (2 died)	138
1897..	751	19 .....	4	0	138
1898..	824	20 .....	4	19 (4 died)	146
1899..	729	16 .....	2	13 (2 died)	123
1900..	798	8 .....	0	10 (2 died)	129
1902..	1,210	44 .....	6	43 (6 died)	172
1905..	1,063	56 .....	9	56 (8 died)	303
1906..	1,121	48 .....	5	50 (5 died)	285
1900 and after.	4,192	156 .....	20	159 (21 died)	889
Before 1900.	5,468	82 .....	20	46 (13 died)	950
	9,660	238 .....	40	205 (34 died)	1,839

## THE MORTALITY FROM APPENDICITIS?

97

NAME OF HOSPITAL.	TOTAL NUMBER PATIENTS.			TOTAL NO. CASES APPENDICITIS.			TOTAL NO. DEATHS.			PERCENT-AGE FATALITY.			PROPORTION OF CASES OF APPENDICITIS TO TOTAL NUMBER OF PATIENTS.						
	1900 and after.	Before 1900.	Total.	1900 and after.	Before 1900.	Total.	1900 and after.	Before 1900.	Total.	1900 and after.	Before 1900.	Entire Period.	1900 and after.	Before 1900.	Entire Period.	1906.	1900.	1890.*	
Maine General, Portland, Maine.....	10,548	7,947	18,495	1,116	203	1,319	56	14	80	5.	6.3	6.	One in 9	39	14	.....	.....	.....	
Central Maine General, Lewiston, Maine.....	6,439	2,566	9,005	940	236	996	32	9	41	3.9	3.5	3.9	" 6	45	8	5	16	363	
Mercy, Chicago, Ill.....	13,033	6,731	19,770	958	566	1,194	39	73	5.5	8.4	6.2	" 13	28	16	10	30	274		
House of Mercy, Pittsfield, Mass.....	6,280	2,224	8,504	406	72	478	34	8	42	8.3	11.1	8.8	" 15	30	17	13	14	122	
Lowell Hospital Association, Lowell, Mass.....	4,652	1,896	6,548	58	13	71	9	2	11	15.5	15.3	15.4	" 80	145	92	38	163	153	
Massachusetts Homeopathic, Boston, Mass.....	19,069	.....	.....	.....	.....	1,295	60	.....	60	4.6	.....	4.6	" 14	.....	14	15	12	.....	
Carney Hospital, Boston, Mass.....	12,436	11,045	23,481	447	83	530	16	4	20	3.5	4.8	3.7	" 27	133	4	16	84	2201	
Eastern Maine Hospital, Bangor, Maine.....	6,485	2,413	8,898	1,384	99	1,483	53	2	55	3.8	2.	3.7	" 4	24	6	3	8	150	
Johns Hopkins, Baltimore, Md.....	30,700	27,985	58,685	958	290	1,248	48	30	78	5.	10.4	6.2	" 32	96	47	23	41	243	
University of Pennsylvania, Philadelphia, Pa.....	26,703	12,209	38,712	518	86	604	39	4	43	7.6	4.6	7.1	" 51	139	64	45	55	1217	
Portsmouth Cottage Hospital, Portsmouth, N.H.....	1,748	739	2,487	54	10	64	5	0	5	9.2	0.	7.9	" 32	73	38	20	221	165	
Bridgeport Hospital, Bridgeport, Conn.....	5,876	4,323	10,199	163	81	244	29	17	46	17.7	20.9	18.8	" 36	53	41	.....	41	240	
St. Luke's Hospital, Chicago, Ill.....	2,312	9,859	12,171	66	132	198	7	12	19	10.6	9.	9.5	" 620	981	896	.....	620	1932	
Charity Hospital, New Orleans, La.....	8,330	58,915	67,245	15	60	75	2	20	22	13.3	33.3	20.3	" 20	55	34	24	914	.....	
Buffalo General Hospital, Buffalo, N. Y.....	10,219	18,886	29,105	494	338	832	35	41	76	7.2	12.1	9.1	" 27	86	25	17	46	273	
Lakeside Hospital, Cleveland, Ohio.....	11,889	.....	11,889	402	.....	402	28	.....	28	6.9	.....	6.9	" 29	.....	29	32	.....	.....	
Avant-Orden Memorial Hospital, Elmira, N. Y.....	3,168	1,649	4,817	117	19	136	11	3	14	9.4	15.7	10.3	" 27	.....	51	51	.....	360	
Saint Catherine, Brooklyn, N. Y.....	.....	15,618	.....	.....	391	301	.....	.....	31	31	.....	7.	" 7	.....	209	209	.....	227	
Massachusetts Homoeopathic, Boston, Mass.....	.....	12,874	.....	.....	441	441	.....	.....	24	24	.....	7.	" 7	.....	209	209	.....	227	
City Hospital, Quincy, Mass.....	1,671	1,026	2,697	121	15	136	13	1	14	10.7	6.6	10.2	" 13	68	19	.....	.....	23	137
Brooklyn Hospital, Brooklyn, N. Y.....	2,170	7,935	10,105	65	186	251	5	24	29	7.6	12.9	11.5	" 33	42	40	.....	.....	13	226
Mercy Hospital, Springfield, Mass.....	6,274	950	7,224	442	35	477	36	1	37	8.1	2.8	7.7	" 14	27	15	10	18	58	
Elliot City, Keene, N. H.....	3,910	.....	3,910	32	22	54	2	3	5	6.2	13.6	9.2	" 28	17	24	.....	20	10	
Christ Hospital, Jersey City, N. J.....	3,244	3,957	7,201	198	87	285	37	12	49	18.6	13.8	17.1	" 16	45	25	.....	28	507	
Brockton Hospital, Brockton, Mass.....	1,736	.....	1,736	216	6	222	23	.....	23	10.6	.....	10.6	" 8	.....	8	.....	.....	.....	
Leonard Morse, Natick, Mass.....	733	86	819	86	6	92	6	0	6	6.9	0.	6.5	" 8	14	8	6	10	162	
City Hospital, Haverhill, Mass.....	1,448	1,147	.....	.....	29	29	.....	.....	5	.....	.....	.....	" 15	16	16	.....	19	39	
Melrose Hospital, Melrose, Mass.....	26,640	671	2,119	94	34	128	4	1	5	4.2	2.8	3.9	" 15	16	16	.....	19	39	
Presbyterian, New York.....	.....	52,051	2,461	2,461	558	2,719	176	85	261	8.1	15.2	9.5	" 12	45	19	10	18	.....	
Total and averages.....	224,839	239,256	464,095	11,511	3,492	15,003	819	373	1192	7.	10.6	7.9	" 19	68	30	.....	.....	.....	

\* Average.

REPORTS OF  
MAINE GENERAL HOSPITAL,  
PORTLAND, MAINE.

YEAR.	Total No. of Patients.	NO. OF CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	Died.	Operations.	Total No. of All Operations.
1891....	617	1.....	0	1	
1892....	647	5.....	1	5	577
1893....	873	4.....	0	4	834
1894....	921	11.....	2	11	828
1895 ...	887	24.....	2	24	734
1896....	953	22.....	1	22	758
1897....	971	39.....	2	39	768
1898....	1,075	43.....	5	43	848
1899....	1,003	54.....	1	54	854
1900....	1,050	36 Appendicectomy.....	2	.....	918
		7 Abscess drained.....	0		
1901....	1,305	69 Appendicectomy.....	2	.....	935
		14 Appendiceal Abscess opened and drained.....	3		
1902....	1,267	87 Appendicectomy.....	1	.....	963
		22 Appendiceal Abscess opened and drained.....	2		
1903....	1,040	134 Appendicectomy.....	11	.....	1,307
		22 Appendiceal Abscess opened and drained.....	4		

## MAINE GENERAL HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	Died.	Operations.	Total No. of All Operations.
1904....	1,469	129 Appendicectomy..... 23 Appendiceal Abscess opened and drained.....	2..... 6	.....	1,103
1905....	1,311	137 Appendicectomy..... 35 Appendiceal Abscess opened and drained.....	4... .. 5	...	1,049
1906....	1,447	154 Appendicectomy..... 36 Appendiceal Abscess opened and drained and Appendicectomy.....	0..... 4	.....	1,086
1907....	1,559	161 Appendicectomy..... 45 Appendicectomy, Abscess opened and drained.....	2..... 8	.....	1,139
1900 and after.	10,548	1,116.....	56.....	.....	8,500
Before 1900.	7,947	203.....	14.....	.....	6,201
	18,495	1,319.....	70.....	.....	14,701

REPORTS OF  
CENTRAL MAINE GENERAL HOSPITAL,  
LEWISTON, MAINE.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.		Died.	Operations.	Total No. of All Operations.
1892....	135	0 cases	Appendicitis.....	..		
1893....	228	0 "	" .....	..		
1894....	363	1 case	" .....	0		
1895....	292	2 cases	" .....	0		
		(1 Recurrent.)				
1896....	339	1 case	Appendicitis .....	0		
1897....	302	6 cases	" .....	0		
1898....	420	12 "	" .....	1		
1899....	487	34 "	" .....	1		
1900....	563	35 "	" .....	3		
1901....	751	70 "	" .....	4		
1902....	900	88 "	" .....	1		
1903....	880	159 "	" .....	8		
1904....	850	165 "	" .....	9	148	562
1906....	1,238	212 "	" .....	7	230	752
1907....	1,277	211 "	" .....	5	220	615
1900 and after.	6,459	940 "	" .....	37		
Before 1900.	2,566	56 "	" .....	2		
	9,025	996 "	" .....	39		



REPORTS OF  
MERCY HOSPITAL,  
CHICAGO, ILL.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1895....	1,470	27 Acute..... 3 Chronic.....			
1896....	1,786	44 Acute..... 15 Chronic.....	5 1	Not given.	
1897....	1,610	49 Acute..... 23 Chronic.....	7	41	457
1898....	1,865	40 Acute..... 35 Chronic.....	4 3	23 35	463
1900....	2,275	64 Acute..... 10 Recurrent.....	7	59 7	655
1901....	2,419	52 Acute..... 96 Recurrent.....	9 7	43 87	756
1903....	2,557	67 Acute..... 122 Chronic.....	6 3	157	813
1904....	2,978	107 Chronic..... 3 Acute, with General Peritonitis..... 71 Catarrhal..... 62 Acute Suppurative... 14 Gangrenous.....	1 1 2 5 2	106 (Chronic.) 3 Acute, with Gen- eral Peritonitis. 71 (Catarrhal.) 58 (Suppurative.) 14 (Gangrenous.)	1,570

## MERCY HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1906....	2,810	64 Acute Catarrhal.... 45 Acute Suppurative .. 23 Gangrenous ..... 17 General Peritonitis.. 121 Chronic.....	0 0 3 7 0	64 (Acute Catarrhal.) 45 (Acute Suppurative.) 20 (Acute Gangrenous.) 15 (with General Peritonitis.) 121 (Chronic.)	1,649
1900 and after.	13,039	958.....	53	869	5,213
Before 1900.	6,731	236.....	20	117	920
	19,770	1,194.....	73	986	6,133

REPORTS OF  
HOME OF MERCY,  
PITTSFIELD, MASS.

YEAR.	Total No. of Patients.	NO. CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1893....	245	2.....	0	.....	.....
1894....	265	6.....	1	.....	.....
1895....	293	4.....	1	.....	.....
1896....	321	9.....	0	.....	.....
1897....	327	13.....	3	.....	.....
1898....	357	21.....	3	.....	.....
1899....	416	17.....	0	.....	.....
1900....	433	23.....	1	.....	.....
1901....	508	34.....	2	.....	.....
1902....	581	31.....	6	.....	.....
1903....	743	42.....	9	.....	.....
1904....	802	45.....	2	.....	.....
1905....	825	71.....	3	.....	.....
1906....	1,039	76.....	7	.....	.....
1907....	1,249	84.....	4	.....	.....
1900 and after.	6,280	406.....	34	.....	.....
Before 1900.	2,224	72.....	8	.....	.....
	8,504	478.....	42	.....	.....

REPORTS OF  
LOWELL HOSPITAL ASSOCIATION,  
LOWELL, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1895.....	316	2 cases Appendicitis.....	1
1896.....	316	1 " " .....	1
1897.....	320	1 " " .....	0
1898.....	426	4 " " .....	0
1899.....	518	5 " " .....	2
1900.....	653	4 " " .....	1
1901.....	655	5 " " .....	0
1902.....	680	6 " " .....	1
1903.....	713	15 " " .....	3
1906.....	879	23 " " .....	5
1907.....	1,072	25 " " .....	3
1900 and after.	4,652	58 " " .....	13
Before 1900.	1,896	13 " " .....	4
	6,548	71 " " .....	17

REPORTS OF  
MASSACHUSETTS HOMEOPATHIC HOSPITAL,  
BOSTON, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1890.....	683	3. ....	0
1891.....	730	4. ....	0
1892.....	789	3. ....	0
1893.....	1,097	5. ....	1
1894.....	1,181	19. ....	4
1895.....	1,329	33. ....	1
1896.....	1,491	51. ....	4
1897.....	1,566	74. ....	8
1898.....	1,645	117. ....	6
1899.....	1,963	132. ....	7
	12,874	441. ....	31

REPORTS OF  
MASSACHUSETTS HOMEOPATHIC HOSPITAL,  
BOSTON, MASS.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	DIED.
1900.....	2,284	187 104 Acute..... (3 died)..... 51 Intercurrent (1 died)..... 32 Suppurative (5 died).....	9
1901.....	2,697	180 84 Acute..... (1 died)..... 54 Intercurrent (2 died)..... 5 Recurrent.. (0 died)..... 37 Suppurative (10 died).....	13
1902.....	3,074	236 141 Acute..... (3 died)..... 52 Intercurrent (0 died)..... 9 Recurrent.. (0 died)..... 34 Suppurative (9 died).....	9
1903.....	3,467	215 132 Acute..... (2 died)..... 43 Intercurrent (1 died)..... 3 Recurrent.. (0 died)..... 37 Suppurative (9 died).....	12
1904.....	3,720	217 152 Acute..... (1 died)..... 34 Intercurrent (0 died)..... 3 Recurrent.. (0 died)..... 28 Suppurative (4 died).....	5
1905.....	3,917	260 190 Acute..... (3 died)..... 70 Suppurative (9 died).....	12
	19,069	1,295.....	60

REPORTS OF  
CARNEY HOSPITAL,  
BOSTON, MASS

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Operations.
1894 . . .	2,201	1 (Abscess Appendix) . . . . .	0	Not stated.	Not stated.
1895 . . .	2,210	4 . . . . .	0		
1896 . . .	2,225	28 . . . . .	2		
1897 . . .	2,203	22 . . . . .	2		
1898 . . .	2,206	28 . . . . .	0	13	357
1900 . . .	2,449	29 . . . . .	1	18	491
1901 . . .	2,461	57 . . . . .	3	52	492
1902 . . .	2,347	55 . . . . .	3	34	400
1903 . . .	2,535	20 . . . . .	1	20	241
1906 . . .	2,674	158 73 Acute Cases, 4 died . . . . . (Moribund on entrance.) 16 Subacute, 2 died . . . . . 69 Chronic, 0 died . . . . .	8	158	613
1900 and after.	12,436	447 . . . . .	16	332	2,237
Before 1900.	11,045	83 . . . . .	4	.....	.....
	23,481	530 . . . . .	20	.....	.....

REPORTS OF  
EASTERN MAINE GENERAL HOSPITAL,  
BANGOR, MAINE.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1893.....	150	1 Chronic (1 died).....	1	0	
1894.....	132	1 Chronic (1 died).....	1	1	
1895.....	216	3 .....	0	1	
1896.....	265	5 (2 Chronic).....	1	2	
1896-7....	357	8 .....	0	8	
1897-8....	371	6 (3 Chronic).....	0	6	
1898-9....	394	26 14 Acute..... 12 Chronic.....	0	26	287
1899-1900.	518	49 .....	0	44	
1900-1....	799	96 29 Acute (5 died)..... 67 Chronic (1 died).....	6	101 (6 died.)	556
1901-2....	849	113 52 Acute (6 died)..... 61 Chronic (0 died).....	6	114 (4 died.)	601
1902-3....	899	142 67 Acute (7 died)..... 75 Chronic (3 died).....	10	131 (9 died.)	638
1903-4....	797	199 94 Acute (9 died)..... 105 Chronic (0 died).....	9	205 (8 died.)	718

## EASTERN MAINE GENERAL HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1904-5....	1,001	212 85 Acute (8 died)... 127 Chronic.....	8	239 (8 died.)	853
1905-6....	1,075	284 85 Acute (7 died)... 199 Chronic (0 died)..	7	300 (6 died.)	936
1906-7....	1,065	338 86 Acute (4 died)... 252 Chronic (3 died)..	7	363 (10 died.)	1,039
1900 and after.	6,485	1,384.....	53	1,442 (51 died.)	5,341
Before 1900.	2,413	99.....	2	87 (? died.)	
	8,898	1,483... ..	55	1,529	

REPORTS OF  
JOHNS HOPKINS HOSPITAL,  
BALTIMORE, MD.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1891.....	1,722	7.....	1
1892.....	2,111	6.....	1
1893.....	2,622	10.....	2
1894.....	3,018	16.....	4
1895.....	3,388	16.....	1
1896.....	3,602	23.....	3
1897.....	3,633	54.....	5
1898.....	3,815	74.....	4
1899.....	4,074	84.....	9
1900.....	4,702	114.....	9
1901.....	4,363	117.....	8
1902.....	4,164	127.....	6
1903.....	4,166	120.....	8
1904.....	4,531	161.....	8
1905.....	4,224	140.....	2
1906.....	4,550	179.....	7



REPORTS OF  
UNIVERSITY OF PENNSYLVANIA HOSPITAL,  
PHILADELPHIA, PA.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1891.....	1,217	1 Typhilitis.....	
1892.....	1,348	1    ".....	1
1893.....	1,331	3.....	
1894.....	1,266	11.....	2
1895.....	1,360	16.....	1
1897.....	1,608	18.....	
1898.....	1,985	13.....	
1899.....	1,894	23 12 "Appendicitis".....	0
		1 Acute Catarrhal.....	
		3    "    with Abscess.....	
		4 Chronic.....	
		2 Perforative with General Peritonitis.....	
		1 Suppurative.....	
1900.....	2,280	41 9 Recurrent.....	0
		1 Chronic.....	
		6 Catarrhal.....	
		10 Acute.....	
		15 Appendicitis.....	
1901.....	2,627	52 1 Gangrenous.....	1
		5 with Peritonitis.....	4
		38 Appendicitis.....	
		2 Abscess of Appendix.....	
		4 Acute.....	1
		2 Chronic.....	

## UNIVERSITY OF PENNSYLVANIA HOSPITAL—Continued.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1902.....	3,066	36 4 Acute Catarrhal..... 7 Abscess of Appendix..... 24 Appendicitis..... 1 Gangrenous.....	1
1903.....	3,710	70 4 Abscess of Appendix..... 55 Acute..... 1 Acute Catarrhal..... 3 Acute Suppurative... 2 Chronic..... 5 Gangrenous.....	3     1
1904.....	3,629	59 5 Gangrenous..... 31 Chronic..... 28 Acute.....	3   1
1905.....	3,565	67 38 Acute..... 17 Chronic..... 12 Gangrenous.....	1  4
1906.....	3,727	88 43 Acute..... 27 Chronic..... 18 Gangrenous.....	8 8
1907. ....	4,089	105 83 Acute..... 19 Chronic..... 2 Gangrenous..... 1 Perforative with General Peritonitis.....	3   1
1900 and after.	26,703	518.....	39
Before 1900.	12,009	86.....	4
	38,712	604.....	43

REPORTS OF  
PORTSMOUTH COTTAGE HOSPITAL,  
PORTSMOUTH, N. H.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1895 .....	150	0 .....	0
1896 .....	165	1 .....	0
1897 .....	190	7 .....	0
1898 .....	201	2 .....	0
1899 .....	213	0 .....	0
1900 .....	221	1 .....	0
1901 .....	263	6 .....	0
1902 .....	262	11 .....	2
1903 .....	243	4 .....	1
1904 .....	243	10 .....	1
1905 .....	276	10 .....	0
1906 .....	240	12 .....	1
1900 and after.	1,748	54 .....	5
Before 1900.	739	10 .....	0
	2,487	64 .....	5

REPORTS OF  
BRIDGEPORT HOSPITAL,  
BRIDGEPORT, CONN.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	Died.	Operations.
1892.....	481	2.....	1	0
1893.....	473	4.....	1	2
1894.....	483	5.....	1	1
1896.....	619	11.....	2	4
1897.....	669	14.....	5	14
1898.....	819	25.....	5	17
1899.....	779	20.....	2	18
1900.....	779	19.....	1	6
1901.....	909	16.....	5	10
1902.....	995	10.....	5	10
1903.....	1,014	27.....	7	27
1904.....	1,049	42.....	7	44
1905.....	1,130	46.....	4	39
1900 and after.	5,876	163.....	29	136
Before 1900.	4,323	81.....	17	56
	10,199	244.....	46	192

REPORTS OF  
ST. LUKE'S HOSPITAL,  
CHICAGO, ILL.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1892.....	1,504	5.....	0
1894.....	1,471	27.....	4
1896.....	1,593	21.....	0
1897.....	1,563	32.....	2
1898.....	1,761	25.....	3
1899.....	1,967	22.....	3
1902.....	2,312	66.....	7
1900 and after.	2,312	66.....	7
Before 1900.	9,859	132.....	12
	12,171	198.....	19

REPORTS OF  
CHARITY HOSPITAL,  
NEW ORLEANS, LA.

YEAR.	TOTAL NO. OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1893.....	7,728	4.....	0
1894.....	8,480	4.....	1
1895.....	7,734	13.....	9
1896.....	7,281	12.....	3
1897.....	8,816	12.....	4
1898.....	9,812	15.....	3
1899.....	9,064	.....	
1900.....	8,330	15.....	2
1900 and after.	8,330	15.....	2
Before 1900.	58,915	60.....	20
	67,245	75.....	22

REPORTS OF  
BUFFALO GENERAL HOSPITAL,  
BUFFALO, N. Y.

YEAR.	Total No. of Patients	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1891....	1,829	2.....	0	0	490
1892....	2,009	3.....	1	0	499
1893....	2,087	16.....	2	10	616
1894....	1,913	14.....	2	13	537
1895....	2,109	35.....	7	30	841
1896....	2,075	72.....	7	64	848
1897....	2,087	62 17 Acute Catarrhal, 0 died..... 15 Chronic, 0 died..... 2 Gangrenous, 1 died..... 1 Recurrent, 0 died..... 27 Suppurative, 9 died.....	10	54	781
1898....	2,107	69 20 Acute Catarrhal, 0 died..... 9 Gangrenous, 2 died..... 15 Recurrent, 1 died..... 17 Subacute, 0 died..... 8 Suppurative, 1 died.....	4	71	930
1899....	2,271	65 24 Acute Catarrhal, 0 died..... 7 Gangrenous, 6 died..... 13 Recurrent, 0 died..... 4 Subacute, 0 died..... 17 Suppurative, 2 died.....	8	67	649

## BUFFALO GENERAL HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	Operations.	Total No. of All Ope- rations.
1900....	2,448	98 54 Acute Catarrhal, 1 died. . . . . 6 Gangrenous, 4 died. . . . . 15 Recurrent, 4 died. . . . . 8 Subacute, 0 died. . . . . 15 Suppurative, 5 died. . . . .	14	90	1,100
1901....	2,816	85 45 Acute Catarrhal, 1 died. . . . . 8 Gangrenous, 5 died. . . . . 12 Recurrent, 0 died. . . . . 29 Suppurative, 1 died. . . . .	7	84	1,139
1902....	2,320	108 57 Acute, 0 died. . . . . 11 Gangrenous, 5 died. . . . . 12 Recurrent, 0 died. . . . . 28 Suppurative, 4 died. . . . .	9	79	1,004
1903....	2,635	103 60 Acute, 1 died. . . . . 16 Gangrenous, 1 died. . . . . 10 Recurrent, 0 died. . . . . 17 Suppurative, 3 died. . . . .	5	101	972
1900 and after.	10,219	494. . . . .	35	354	4,215
Before 1900.	18,886	338. . . . .	41	319	6,191
	29,105	832. . . . .	76	673	10,406



REPORTS OF  
LAKESIDE HOSPITAL,  
CLEVELAND, OHIO.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1900 . . . .	1,780	54 8, 0 died, Catarrhal . . . . . 26, 4 died, Circumscribed Abscess . . . . . 3, 2 died, General Peritonitis. 17, 1 died, Chronic . . . . .	7	60 (8 died.)	1,071
1901 . . . .	1,909	45 18, 0 died, Catarrhal . . . . . 5, 0 died, Circumscribed Abscess . . . . . 4, 3 died, General Peritonitis. 18, 0 died, Chronic . . . . .	3	35 (2 died.)	1,097
1902 . . . .	2,227	82 11, 1 died, Catarrhal . . . . . 32, 0 died, Circumscribed Abscess . . . . . 7, 3 died, General Peritonitis. 32, 0 died, Chronic . . . . .	4	77 (4 died.)	1,606
1903 . . .	3,168	97 10, 0 died, Acute Catarrhal . . . . 43, 6 died, Circumscribed Abscess . . . . . 8, 5 died, General Peritonitis. 2, 0 died, Intraperitoneal Abscess . . . . .	11	97 (12 died.)	1,255

## LAKESIDE HOSPITAL—Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	OPERATIONS.	Total No. of All Operations.
1907....	2,805	<p>124</p> <p>37, 0 died, Acute Catarrhal...</p> <p>39, 0 died, Chronic.....</p> <p>33, 0 died, Circumscribed Abscess.....</p> <p>8, 3 died, General Peritonitis..</p> <p>7, 0 died, Intraperitoneal Abscess.....</p>	3	84 (3 died.)	1,564
	11,889	402.....	28	353 (29 died.)	6,593

REPORTS OF  
ST. CATHERINE'S HOSPITAL,  
BROOKLYN, N. Y.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1892....	2,162	6.....	1	6	308
1893....	2,230	7.....	1	7	183
1894....	2,150	16.....	4	16	333
1895....	2,250	21.....	2	21	224
1896....	2,283	50.....	4	42	362
1897....	2,308	58.....	7	58	397
1898....	2,235	43.....	5	40	283
	15,618	301.....	24	190	2,090

REPORTS OF  
AVANT-OGDEN MEMORIAL HOSPITAL,  
ELMIRA, N. Y.

1895....	279	1.....	1	.....	.....
1896....	337	1.....	1	.....	.....
1897....	312	0.....	0	.....	.....
1898....	341	9.....	0	.....	.....
1899....	380	8.....	1	.....	.....
1900....	414	9.....	0	.....	.....
1901....	423	12.....	3	.....	.....
1902....	458	14.....	4	.....	.....
1903....	608	18.....	1	.....	.....
1905....	607	26.....	2	.....	.....
1906....	658	38.....	1	.....	.....
1900 and after.	3,168	117.....	11	.....	.....
Before 1900.	1,649	19.....	3	.....	.....
	4,817	136.....	14	.....	.....

REPORTS OF  
CITY HOSPITAL,  
QUINCY, MASS.

YEAR.	TOTAL NUMBER OF PATIENTS.	CASES OF APPENDICITIS.	DIED.
1895....	197	1.....	0
1896.....	198	2.. ..	0
1897.....	214	3.....	0
1898.....	215	4.....	1
1899.....	202	5.....	0
1900.....	230	10.....	2
1901.....	268	23.....	2
1902.....	284	21.....	2
1903.....	282	25.....	3
1904....	284	21.....	2
1905....	323	21.....	2
1900 and after.	1,671	121.....	13
Before 1900.	1,026	15.....	1
	2,697	136.....	14

REPORTS OF  
BROOKLYN HOSPITAL,

BROOKLYN, N. Y.

GEO. R. FOWLER,  
*Surgeon.*

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1893....	1,132	5.....	1	4	475
1894....	1,086	16.....	4	16	210
1895....	1,149	24.....	3	21	271
1896...	1,332	57.....	10	55	525
1897....	1,455	44.....	3	51	725
1898....	1,781	40.....	3	34	819
1900....	2,170	65.....	5	74	910
1900 and after.	2,170	65.....	5	74	910
Before 1900.	7,935	186.....	24	181	3,025
	10,105	251.....	29	255	3,935

REPORTS OF  
ELLIOT CITY HOSPITAL,

KEENE, N. H.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1894.....	70	7.....	0
1895.....	73	3.....	1
1898.....	73	8.....	2
1899.....	179	4.....	0
1900.....	142	5.....	0
1901.....	177	9.....	1
1902.....	164	5.....	0
1903.....	193	5.....	0
1904.....	234	8.....	1
1900 and after.....	910	32.....	2
Before 1900.....	394	22.....	3

REPORTS OF  
THE MERCY HOSPITAL,  
SPRINGFIELD, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Operations.
1897....	408	7.....	0	7	142
1899....	542	28.....	1	28	278
1900....	756	42.....	6	42	457
1901....	1,109	61.....	2	60	380
1902....	1,152	66.....	8	66	502
1904....	1,413	105.....	11	105	798
1906....	1,744	168 ... ..	7	168	563
1900 and after.	6,274	442.....	36	441	2,730
Before 1900.	950	35.....	1	35	420
	7,224	477.....	37	476	3,150

REPORTS OF  
CHRIST HOSPITAL,  
JERSEY CITY, N. J.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1892....	507	1.....	0	0	131
1893....	566	2.....	0	0	193
1894....	741	5 .....	1	0	235
1895....	610	11.....	0	0	245
1896....	658	30.....	8	24 (5 died.)	307
1898....	875	38.....	3	37	447
1900....	994	35.....	6	31	542
1901....	1,171	89.....	15	97	670
1902....	1,079	74.....	16	80	708
1900 and after.	3,244	198.....	37	208	1,820
Before 1900.	3,957	87.....	12	61	1,558
	7,201	285.....	49	269	5,378



REPORTS OF  
BROCKTON HOSPITAL,  
BROCKTON, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.	Operations.	Total No. of All Ope- rations.
1900....	292	27. ....	0	24	145
1901....	345	34. ....	6	28	171
1902....	325	30. ....	4	27	171
1903....	325	58. ....	6	60	286
1904....	449	67. ....	7	56	225
	1,736	216. ....	23	195	998

REPORTS OF  
CITY HOSPITAL,

HAVERHILL, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1893....	162	1.....	0	1 (0 died.)	16
1894....	169	2.....	1	1 (1 died.)	26
1895....	228	5.....	1	4 (1 died.)	59
1896....	284	13.....	2	10 (2 died.)	68
1897....	304	8.....	1	7 (1 died.)	114

REPORTS OF  
LEONARD MORSE HOSPITAL,  
NATICK, MASS.

1899....	86	6.....	0	5	55
1901....	118	11.....	2	11	57
1902....	140	13.....	0	10	55
1903....	145	25.....	3	23	63
1905....	143	16.....	1	11	63
1906....	187	31.....	0	30	95
1900 and after.	733	86.....	6	85	333
Before 1900.	86	6.....	0	5	55
	819	92.....	6	90	388

REPORTS OF  
MELROSE HOSPITAL ASSOCIATION,  
MELROSE, MASS.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1896.....	136	4.....	1
1897.....	161	10.....	0
1898.....	178	11.....	0
1899.....	196	9.....	0
1900.....	238	12.....	2
1901.....	235	15.....	2
1902.....	283	19.....	0
1903.....	241	17.....	2
1904.....	220	11.....	0
1905.....	231	20.....	0
1900 and after. ....	1,448	94.....	4
Before 1900. ....	671	34.....	1
	2,119	128.....	5



CAUSES OF DEATH FOLLOWING OPERATIONS FOR APPENDICITIS AT PRESBY-  
TERIAN HOSPITAL, New York, N. Y.\*

THE MORTALITY FROM APPENDICITIS ?

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9

	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.
Peritonitis.....													
Peritonitis; General; Pneumonia.....			1	1	4	1	1	2	5	1			
Peritonitis; General; Secondary Abscess.....													
Peritonitis; General; Intestinal Obstruction.....						9	11	11	7	10	5	7	1
Peritonitis; General; Acute.....													
Peritonitis; General; Spreading.....													
Peritonitis; General; Spreading Septicæmia.....													
Peritonitis; General; Intestinal Obstruction.....													
Peritonitis; Local; Intestinal Obstruction.....													
Peritonitis; Septic.....			4	1									
Peritonitis; Pericarditis.....													
Multiple Abscess; Septicæmia.....					1								
Salpingitis; Pulmonary Embolism.....					1								
Nephritis; Diphtheria.....			1		1			1			1		
Pneumonia.....													
Alcoholism; Acute Nephritic.....													
Shock.....													
Intestinal Obstruction.....													
Intestinal Obstruction; Pneumonia.....													
Subdiaphragmatic Abscess; Rupture into lung.....													
Pyelophlebitis.....													
Acute Gastritis.....													
Apoplexy.....													
Septicæmia.....													
Heart Failure.....													
Aortic Aneurism.....													
Cellulitis of Back; Septicæmia.....													
Pulmonary Thrombosis.....													
Delirium Tremens.....													
Pulmonary Embolism.....													
Inguinal Hernia.....													
Ac. Endocarditis; Chronic Pericarditis.....													
Peritonitis; Post Operative Sinus.....					1								
Peritonitis; Intestinal Obstruction.....													
General; Subphrenic Abscess.....													
General; Oedema of Lungs.....													
Septic; Intersusception; Exhaustion.....					2	6	4	2					
General.....					1	1							
General Septic.....					1	1							
Peritonitis.....					4	1							
Pyæmia.....													
Exhaustion; Shock.....													
Biliary Calculi; Multiple Abscess; Septicæmia.....													
Pharyngitis; Pulmonary Tuberculosis; Sepsis.....					1								
General Sepsis.....													
Pneumonia; Thrombosis Femoral Vein.....													
Alcoholic Mania, Acute.....					2								
Septicæmia.....					1								
Pneumonia.....													
Chronic Nephritis.....													

\*Furnished through kindness of Dr. C. IRVING FISHER, Superintendent.



TABLE VI.  
FOREIGN HOSPITALS 1890 TO 1906.

NAME OF HOSPITAL	TOTAL NUMBER PATIENTS.			TOTAL NO. CASES APPENDICITIS.			TOTAL NO. DEATHS.			PERCENTAGE FATALITY.			OPERATIONS FOR APPENDICITIS.		
	1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	Total.	Before 1900.	1900 and After.	Entire Period.	Before 1900.	1900 and After.	Total.
St. Bartholomew's Hospital, London, Eng.....	34,156	73,655	107,811	920	614	1,534	99	70	169	10.7	11.3	11.	748	219	967
Westminster Hospital, London, Eng.....	11,011	20,069	31,080	276	181	457	30	24	54	10.8	13.8	12.6	102	17	209
Hamburgischer Staatskrankenanstalt.....	128,397	138,998	267,395	2,087	1,310	3,397	315	141	456	15.	10.7	13.4	1,304	263	1,567
Saint Thomas, London, Eng.....	19,738	43,844	63,582	624	636	1,260	133	100	233	14.	15.7	15.3	444	282	726
Charité, Berlin. ....	105,190	187,831	293,021	451	520	971	28	38	66	6.2	7.3	6.7			
Total and Averages.....	300,112	476,497	776,609	4,358	3,231	7,589	565	373	938	12.9	11.6	12.3	2,688	781	3,469

TABLE VI. (Continued.)

TOTAL NUMBER OF ALL OPERATIONS, MAJOR AND MINOR.			PERCENTAGE OF APPENDICITIS CASES OPERATED UPON.			PERCENTAGE RELATION OF APPENDICEAL OPERATIONS TO ALL OTHERS.			PERCENTAGE RELATION OF APPENDICITIS CASES TO ALL OTHERS.						OPERATIVE DEATHS.			
1900 and After.	Before 1900.	Total.	1900 and After.	Before 1900.	Entire Period.	1900 and After.	Before 1900.	Entire Period.	1900 and After.	Before 1900.	Entire Period.	1906.	1900.	1890.*	1900 and After.	Percent. age.	Total.	Percent. age.
13,729	15,554	29,283	81	35	63	5.4	14.	3.	One in 39	135	70	.....	57	229	97	12.9	153	15.8
3,861	5,356	9,217	69	11	48	4.9	0.3	2.2	" 39	172	86	.....	76	231	56	25.5	16	7.6
24,838	22,147	46,985	62	20	46	5.2	1.1	3.3	" 61	106	78	43	.....	43	135	6.7	317	16
7,905	14,437	22,342	71	44	57	5.6	1.8	3.2	" 31	78	55	32	.....	32	128	9.5	22	8.3
			.....	.....	.....			.....	" 234	361	302	159	.....	159	432	.....	.....	.....
50,333	57,494	107,827	68	28	52	5.3	1.3	3.2	" 68	147	102	.....	.....	.....	.....	.....	.....	.....

\*Earliest report.

REPORTS OF  
ST. BARTHOLOMEW'S HOSPITAL,  
LONDON, ENGLAND.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1889..	6,893	Medical Report: 27 Typhilitis (2 died)..... Surgical Report: 3 Perityphilitis (0 died).....	2	0	783
1890..	7,160	Medical Report: 2 Typhilitis..... Surgical Report: 4 Perityphilitis and Appendicitis (2 died).....	2 2	5 (Abdominal Section, 3 died.)	994
1891..	6,123	Medical Report: 18 Typhilitis (0 died)..... Surgical Report: 6 Perityphilitis and Appendicitis (0 died).....	0 0	1 (Abdominal Section, 0 died.)	1,035
1892..	6,046	Medical Report: 34 Typhilitis (1 died)..... Surgical Report: 5 Perityphilitis and Appendicitis (3 died).....	1 3	4 (Abdominal Section, 3 died.)	1,131
1893..	7,236	Medical Report: 23 Typhilitis (0 died)..... Surgical Report: 11 Perityphilitis and Appendicitis (2 died).....	2	4 (Abdominal Section, 3 died.)	1,640
1894..	6,976	Medical Report: 30 Typhilitis (5 died)..... Surgical Report: 11 Perityphilitis and Appendicitis (2 died).....	5 2	7 (Abdominal Section, 4 died.)	1,770



## ST. BARTHOLOMEW'S HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1895..	7,290	Medical Report: 19 Typhilitis (1 died)..... 4 Perityphilitic Abscess (2 died) Surgical Report: 12 Perityphilitis and Appendicitis (2 died).....	3    2	10 (Abdominal Section, 3 died.)	1,835
1896..	7,400	Medical Report: 29 23 Typhilitis. .... 6 Perityphilitis by adhesions (2 died). .... Surgical Report: 52 Perityphilitis and Appendicitis, 6 Mild without suppuration .... 13 Chronic without suppuratlon . 24 Acute with suppuration (2 died) 6 Chronic with abscess (0 died). 1 Chronic with Intestinal Stran- gulation by adhesions (1 died) 2 Old Appendicitis with Sinuses (1 died).....	2          1 1	43 (14 died.)	1,971
1897..	6,918	Medical Report: 37 34 Perityphilitis ..... 3 Perityphilitis with Abscess (3 died) ..... Surgical Report: 48 4 Acute without suppuration... 17 Chronic relapsing without sup- puration ..... 23 Acute with suppuration (10 died) ..... 4 Chronic with abscess.....	3       10	39 (9 died.)	1,874
1898..	6,874	Medical Report: 30 20 Perityphilitis ..... 2 “ with abscess (1 died) ..... Surgical Report: 67 6 Acute without Suppuration... 25 Chronic relapsing without sup- puration ..... 31 Acute with Suppuration (8 died) 5 Chronic with abscess.....	1      8	59 (15 died.)	2,156

ST. BARTHOLOMEW'S HOSPITAL—Continued.

## ST. BARTHOLOMEW'S HOSPITAL -- Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1902..	6,899	Medical Report: 6 Appendicitis ..... Surgical Report: 199 32 Acute without suppuration ... 98 Chronic relapsing without suppuration (2 died)..... 15 Acute Gangrenous (13 died).. 30 Acute with suppuration (5 died) ..... 12 Chronic with abscess..... 4 Old Appendicectomy.....	        2 13  5	171 (19 died.)	3,162
1903..	7,117	Medical Report: 11 Appendicitis ..... Surgical Report: 204 46 Acute without Suppuration... 85 Chronic relapsing without suppuration (2 died)..... 15 Acute Gangrenous (11 died).. 32 Acute with abscess (7 died)... 13 Chronic with abscess..... 8 Old Appendicitis—abscess previously opened (8 died) .... 5 Old Appendicectomy.....	        2 11 7   1	165 (20 died.)	2,956
1905..	7,005	Medical Report: 9 Appendicitis ..... Surgical Report: 205 19 Acute Gangrenous (12 died) .. 20 Acute with suppuration (3 died) ..... 38 Acute with abscess (4 died).. 73 Acute without suppuration... 55 Chronic relapsing or quiescent (2 died).....	        12 3  4   2	202 (21 died.)	2,797
1900 and after.	34,156	920	99	748	13,729
Before 1900	73,655	614	70	219	15,564
	107,811	1,534	169	967	29,283

REPORTS OF  
WESTMINSTER HOSPITAL,  
LONDON.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1889..	2,230	Medical Report : 8 cases Typhilitis..... 1 case Perforated Appendix.	2		210
1890..	2,488	Medical Report : 6 cases Typhilitis..... 3 cases Perforated Appendix	2		368
1891..	2,296	Medical Report : 5 cases Typhilitis..... Surgical Report : 1 case Perforated Appendix.	1	Abdominal Section : 1 (1 died.)	263
1892..	2,718	Medical Report : 14 cases Typhilitis..... Surgical Report : 1 case Typhilitis..... 1 case Perforated Appendix.	1 1		313
1893..	2,655	Medical Report : 9 cases Typhilitis..... Surgical Report : 2 cases Typhilitis.....		1 (1 died.)	343
1894..	2,756	Medical Report : 3 cases Perforated Appendix 12 cases Typhilitis..... Surgical Report : 1 case Typhilitis..... 1 case Perforated Appendix.	3 1	(1 died.) Abdominal Section : 1	694
1895..	1,960	Medical Report : 4 cases Typhilitis..... 2 cases Perforated Appendix Surgical Report : 1 case Typhilitis.....	2		383

## WESTMINSTER HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1896..	2,290	Medical Report : 21 cases Typhilitis..... Surgical Report : 4 cases Perityphilitis, Typhilitis and Appendicitis.....	2	Abdominal Section : 1	723
1897..	2,407	Medical Report : 7 cases Typhilitis..... Surgical Report : 1 case Appendicitis .....	1	Abdominal Section : 1	756
1898..	2,501	Medical Report : 4 cases Typhilitis..... Surgical Report : 16 cases Appendicitis.....	2 4		765
1899..	1,768	Medical Report : 3 cases Typhilitis..... Surgical Report : 20 cases Appendicitis.....	1 1	Abdominal Section : 12 (0 died.)	538
1900..	2,060	Medical Report : 11 cases Appendicitis..... Surgical Report : 16 cases Perityphilitis and Appendicitis.....	2	Abdominal Section : 12 (2 died.)	715
1901..	2,518	Medical Report : 2 cases Appendicitis..... Surgical Report : 42 cases Perityphilitis and Appendicitis.....	7	Abdominal Section : 29 (4 died.)	833
1902..	2,043	Medical Report : 6 cases Appendicitis..... Surgical Report : 45 cases Appendicitis and Perityphilitis.....	1 1	Appendicial Excision : 34 (0 died.)	613

## WESTMINSTER HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1903..	2,222	Medical Report : 5 cases Appendicitis..... Surgical Report : 80 cases Appendicitis.....	1 11	Appendicec- tomy: 65 (7 died.)	84
1904..	2,168	Medical Report : 2 cases Appendicitis..... Surgical Report : 29 cases Appendicitis..... 36 " Appendicial Abscess. 1 case Typhilitis.....	7	Appendicec- tomy: 65 (7 died.)	856
1900 and after.	11,011	276 cases Appendicitis.....	30	192 (13 died.)	3,861
Before 1900.	26,069	151 " " .....	24	17 (3 died.)	5,356
	37,080	427 .....	54	209	9,217

REPORTS OF  
HAMBURGISCHE STAATSKRANKENANSTALTEN  
(Neues Allgemeines Krankenhaus.)

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1889..	12,016	Medical report : 52 cases Perityphilitis.....	0	Abscess opened : 1.	1,636
1890..	11,381	Medical report : 64 cases Perityphilitis.....	5	0	844
1891..	13,407	Medical report : 95 cases Perityphilitis..... Surgical report : 12 cases Perityphilitis.....	4 2	Abdominal Section: 3. Abscess incised : 7 (2 died.)	2,265
1892..	15,748	Medical report : 99 cases Perityphilitis.....	2	Abscess incised : 4 (0 died.) Abdominal Section: 4 (1 died.)	2,267
1893..	10,906	Medical report : 70 cases Perityphilitis..... Surgical report : 26 cases Perityphilitis.....	3	Abscess incised : 3. Abdominal Section: 14.	2,085
1894..	8,713	Medical report : 64 cases Perityphilitis..... Surgical report : 28 cases Perityphilitis.....	4	Abscess incised : 4 (1 died.) Abdominal Section: 24 (4 died.)	2,489

## HAMBURGISCHE STAATSKRANKENANSTALTEN — Cont.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1895..	9,016	Medical report : 61 cases Perityphilitis.....	2	Abscess incised: 4 (1 died.)	2,237
		Surgical report : 28 cases Perityphilitis and Appendicitis.....	5	Abdominal Section: 16.	
1896..	8,787	Medical report : 61 cases Perityphilitis and Appendicitis.....	1	Abscess incised: 2.	2,084
		Surgical report : 29 cases Perityphilitis and Appendicitis.....	4	Abdominal Section: 25 (2 died.)	
1897..	11,159	Medical report : 158 cases Perityphilitis, Appendicitis and Peritonitis.	20	Abscess Incised: 19 (3 died.)	1,913
				Abdominal Section: 27.	
1898 .	23,102	Medical report : 218 cases Peritonitis and Perityphilitis.....	43	Abscess incised: 9.	2,081
				Abdominal Section: 27.	
1899..	14,763	Medical report : 245 cases Peritonitis and Perityphilitis.....	46	70 (8 died.)	2,146
1900..	16,237	Medical report : 237 cases Peritonitis and Perityphilitis.....	34	77 (9 died.)	3,136
1901..	16,590	Medical report : 285 cases Peritonitis and Perityphilitis.....	50	78 (15 died.)	3,227
1902..	16,390	Medical report : 214 cases Peritonitis and Perityphilitis.....	34	124 (18 died.)	3,160



## HAMBURGISCHE STAATSKRANKENANSTALTEN — Cont.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1903..	9,444	Medical report: 292 cases Peritonitis and Perityphilitis .....	40	151 (8 died.)	2,744
1904..	9,619	Medical report: 292 cases Peritonitis and Perityphilitis .....	65	246 (38 died.)	3,307
1905..	10,323	Medical report: 430 cases Peritonitis and Perityphilitis .....	45	303 (22 died.)	3,350
1906..	11,394	Medical report: 520 cases Peritonitis and Perityphilitis .....	47	325 (15 died.)	5,914
1900 and after	128,997	2,087 cases Appendicitis .....	315	1,304	24,838
Before 1900	138,998	1,310 " " .....	141	263	22,147
	267,995	3,397 " " .....	456	1,567	46,985

REPORTS OF  
ST. THOMAS HOSPITAL,  
LONDON, ENG.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1890	4,643	31 Medical report : (28 Perityphilitis — 0 died).... ( 3 Perforative Appendicitis — 3 died).....	3	1 Abscess Opened. 2 Laparatomy.	791
1891	4,667	26 Medical report : (24 Perityphilitis — 0 died).... ( 2 Perforative Appendicitis — 2 died)..... 1 Surgical report: (1 died)....	2	1 Incised. 1 Laparatomy. 1 Appendicec- tomy.	975
1892-3	5,190	28 Medical report : Perityphilitis — (6 died)..... 3 Surgical report : ( 2 Perityphilitis — 1 died).... ( 1 Sinus, Perforated Appen- dix — 1 died).....	6	10 Incised	1,108
1894	5,418	46 Medical report : Appendicitis — (11 died).... 3 Surgical report : “Appendicitis” now. ( 2 Recurrent Appendicitis ( 1 Acute Appendicitis — 1 died).....	11	7	1,376
1895	5,755	44 Medical report : Appendicitis — (10 died)..... 15 Surgical report : ( 7 Acute — 4 died)..... ( 7 Chronic — 1 died)..... ( 1 Sinus — 0 died).....	10	22	1,718
1896	5,997	47 Medical report: (12 died).... 23 Surgical report : ( 9 Acute — 1 died)..... (14 Chronic — 1 died).....	12	36	1,947

## ST. THOMAS HOSPITAL — Continued.

YEAR.	Total No. of Patients.	NO. OF CASES APPENDICITIS.	Died.	OPERATIONS.	Total No. of All Operations.
1897	6,100	80 Medical report: (13 died)..... 22 Surgical report: ( 4 Acute — 2 died)..... (18 Chronic — 0 died).....	13 2	39	2,153
1898	6,140	72 Medical report: (15 died)..... 49 Surgical report: ( 9 Acute — 2 died)..... (47 Chronic — 0 died).....	15 2	75	2,242
1899	5,933	81 Medical report: (8 died)..... 60 Surgical report: (23 Acute — 6 died)..... (37 Chronic — 0 died).....	8 6	82	2,127
1900	5,261	72 Medical report: (17 died)..... 88 Surgical report: (56 Appendicitis — 2 died)..... (24 “ and Abscess — 1 died)..... ( 8 Appendicitis and General Peritonitis — 7 died).....	17 2 7	117	2,013
1901	7,038	82 Medical report: (22 died)..... 110 Surgical report: (66 Appendicitis — 0 died)..... (36 Appendicitis with abscess — 5 died)..... ( 1 Local Peritonitis — 0 died) ( 7 General “ — 5 died)	22 5 5	146	2,609
1902	7,459	110 Surgical report: (14 died).... (87 Appendicitis — 0 died).... (52 “ with abscess — 9 died)..... ( 6 Appendicitis with local Pe- ritonitis — 0 died)..... (17 Appendicitis with general peritonitis — 11 died).....	14 9 11	181	3,283
1900 and after	19,758	624.....	93	444	7,905
Before 1900	49,844	636.....	100	282	14,437
	69,602	1,260.....	193	726	22,342

REPORTS OF  
CHARITE HOSPITAL,  
BERLIN.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1890..... XV	20,308	Medical Report: 45..... Surgical Report: 2.....	0 0
1891..... XVI	20,043	Medical Report: 55..... Surgical Report: 6.....	4 1
1892..... XVII	20,352	Medical Report: 81..... Surgical Report: 5.....	3 2
1893..... XVIII	18,919	Medical Report: 42..... Surgical Report: 3.....	1 1
1894..... XIX	21,243	Medical Report: 44..... Surgical Report: 7.....	1 1
1895..... XX	20,582	Medical Report: 33..... Surgical Report: 1.....	3 0
1896..... XXI	18,832	Medical Report: 28..... Surgical Report: 3.....	0 0
1897..... XXII	18,934	Medical Report: 52..... Surgical Report: 15.....	3 4
1898..... XXIII	18,934	Medical Report: 26..... Surgical Report: 7.....	1 0
1899..... XXIV	18,284	Medical Report: 46..... Surgical Report: 19.....	7 6
1900..... XXV	18,238	Medical Report: 41..... Surgical Report: 23.....	0 1

## CHARITE HOSPITAL — Continued.

YEAR.	Total No. of Patients.	CASES OF APPENDICITIS.	DIED.
1901..... XXVI	18,676	Medical Report: 23..... Surgical Report: 36.....	1 3
1902..... XXVII	18,538	Medical Report: 37..... Surgical Report: 38.....	0 5
1903..... XXVIII	16,804	Medical Report: 49..... Surgical Report: 20.....	1 3
1904..... XXIX	17,173	Medical Report: 44..... Surgical Report: 35.....	0 3
1905.....	16,761	Medical Report: 66..... Surgical Report: 39.....	3 8
1900 and after.	106,190	451 (28 died—6.2%)	
Before 1900.	187,931	520 (38 died—7.3%)	
	294,121 (1 in 302)	971 (66 died—6.7%)	

TABLE VII.

Showing increase in mortality of Appendicitis and decrease in Peritonitis from available Census Reports.

	Deaths per 100,000 popu- lation from Appendicitis.	Deaths per 100,000 popu- lation from Peritonitis.	Affections of the Stom- ach except Ulcer per 100,000 popu- lation.
U. S. Census Report .....1900	10.6	15.1	
1904	12.0	10.1	
Report of Registrar General for England and Wales .....1901	3.8	4.7	
1906	6.2	2.4	
Annario Estadistico de la Republica Oriental del Uruguay, Annos 1904 á 1906 .....1893	.4	6.4	12.3
Montevideo 1907 .....1905	3.5	8.1	2.0
De la Fréquence des Principles Causes de Décés à Paris 1886-1905 ..... Jaques Bertillon, Paris 1906 ..... (Imprimee Municipale .....1886	.9		
1894	1.1		
1897	3.0		
1900	6.6		
1905	9.1		
Statische Jahrbuch der Stadt-Berlin, 1907 ..... Verlagion P. Stankiewicz 1904-5.....	14.0	11.9	

TABLE VIII.

## ROOSEVELT HOSPITAL OPERATIONS.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATION.	DIED.
1873 to 1876.	0 .....	0
1877 .....	3 Perityphlitis. 1 Perforation Vermiform Appendix and Local Peritonitis, 1 died .....	2
	3 Perityphlitis. 1 Perityphlitis and Peritonitis, Pleurisy, 1 died .....	
1878 .....	Medical Report: 2 Perityphlitis.	
1879 to 1883.	0 .....	0
1884 .....	2 Incision Perityphlitic Abscess .....	
1885 .....	2 " " " .....	
1886 .....	1 " " " .....	
1887 .....	5 " " " .....	1
1888 .....	3 Incision and Drainage for Perityphlitis .....	
	1 Excision of Appendix for Typhlitis.	
	" " " " " with Suppurative Peritonitis ....	2
1889 .....	3 Acute, Excision of Appendix .....	
	4 " with Abscess, Excision of Appendix ..	
	3 " " " Incision and drainage. ....	
	3 " " " and General Suppurative Peritonitis, Excision of Appendix .....	2 (Moribund on admission.)

TABLE VIII — Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1890..	1 Acute, Excision of Appendix, Langenbeck's Incision, no Drainage..... 3 Acute, with Abscess, Excision of Appendix, Drainage..... 2 Acute, with Abscess, Appendix not found. 1 Recurrent, Excision of Appendix..... 1 " with Abscess, Drainage, Appendix not found. 1 " " " Lumbar Incision. 2 Acute, " " Parker's Drainage 1 Perforative General Suppurative Appendicitis, Median Laparotomy..... 1 Acute Abscess, Inguinal Hernia.....	1 (Peritonitis.)
1892..	14 Acute with Abscess, Excision of Appendix, Drainage..... 5 Acute with Abscess, Drainage of Appendix not removed..... 4 Recurrent Interval Excision of Appendix.. 5 Sinus following Appendicitis..... 4 Fecal Fistula following Appendicitis.....	5 (General Septic Peritonitis.) 1 (General Peritonitis.)
1893..	12 Acute with Abscess, Appendix not removed 8 " Appendix excised..... 1 " General Peritonitis, Appendix Excised..... 2 Gangrenous, Appendix Excised, Drainage. 1 Perforative, Septicaemia..... 2 " General Peritonitis..... 8 Relapsing in Interval, no Drainage..... 4 " " " Partial Packing... 2 Sinus after Appendicitis..... 1 Lumbar Drainage after Appendicitis..... 2 Recision, Appendicitis Wound.....	1 (On second day, Septicaemia.) 1 (Valvular.) 1 (Shock.) 1 (Shock.) 1 (Valvular.)



TABLE VIII.—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1894..	14 Acute with Abscess, Appendix not removed.	
	11 " " " " excised ..	
	2 " without " " "	
	7 " General Peritonitis, Appendix excised.	6
	1 " " " " not "	1
	5 Relapsing, Interval, Usual Incision, No Drainage .....	
	2 Relapsing, in Interval, Usual Incision, Partial Drainage.....	
	9 Relapsing, in Interval, McBurney's Incision, No Drainage.....	
	2 Relapsing, in Interval, McBurney's Incision, Partial Drainage.....	
	1 Supposed Acute Appendicitis, Laparotomy negative .....	
	1 Secondary Abscess following Acute Appendicitis .....	
	1 Chronic Abscess following Acute Appendicitis. ....	
	3 Fecal fistula following Acute Appendicitis (same case).....	
	8 Recision of Appendix wound.....	
1895..	18 Acute, Removal of Appendix.....	2
	10 " Abscess, Incision and Drainage....	1
	1 " with progressive Peritonitis, removal Appendix, Drainage.....	1
	6 " with General Peritonitis.....	5
	1 Subacute .....	
	2 Relapsing, Removal of Appendix .....	
	14 " " " McBurney's incision .....	3
	1 Relapsing, Removal of Appendix, Drainage.	
	5 Chronic " " .....	
	1 " Abscess. Removal of Appendix...	
	1 " Enterorrhaphy, Removal of Appendix .....	1
	1 Abdominal pain, Exploratory laparotomy and removal of Appendix.....	
	1 Pain following Appendicitis, Exploratory laparotomy.....	

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1895.. (Cont.)	1 Sinus following Appendicitis operation, Appendix and Sinus removed.....	
	2 Recision of Appendicitis wound.....	1
	1 Abscess (not found) following Appendicitis operation .....	1
	3 Sinus following Appendicitis operation, Recision.....	1
	1 Sinus following Appendicitis operation, Enterorrhaphy.....	
	1 Sinus following Appendicitis operation, Rectal Drainage.....	
	3 Fecal fistula following Appendicitis opera- tion, Recision.....	
1896..	11 Acute, Removal of Appendix Drainage....	2
	1 " " " " " McBurney's method.....	
	1 " closure.....	
	25 " Incision and Drainage, Abscess....	1
	1 " " " " " En- terorrhaphy .....	
	5 " progressive Peritonitis, Removal Appendix, Drainage.....	
	1 " localized Peritonitis, Incision and Drainage... ..	
	4 " general Peritonitis, Removal of Appendix, Drainage.....	4
	2 Subacute Removal of Appendix, McBur- ney's method.....	1
	1 " Incision of Abscess, Drainage. ...	
	15 Recurrent, Removal of Appendix, McBur- ney's method.....	
	2 " Removal of Appendix, McBurney's method.....	
	1 " Abscess Incision and Drainage....	
	1 " and Dermoid of Ovary.....	
	3 Chronic, Removal of Appendix.....	
	5 " " " " " McBurney's method.... .	1
	1 Exploratory laparotomy for pain, Appendix removed.....	

TABLE VIII—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1896.. (Cont.)	1 Localized Peritonitis following Appendix operation, Laparotomy and Drainage ...	1
	1 Septic Peritonitis following Appendix operation Drainage.....	
	1 Abscess, Old Appendicitis.....	1
	3 " secondary to Appendix operation, Incision Drainage.....	1
	1 Adhesions .....	
	2 Sinus .....	
	1 Fecal Fistula.....	
1897..	2 Acute, Removal Appendix, Drainage.....	1
	2 " " " McBurney's method .....	
	37 " Incision and Drainage, Abscess....	6
	6 " and progressive Peritonitis, Removal Appendix.....	2
	7 " General Peritonitis.....	7
	1 Recurrent, Removal of Appendix.....	1
	36 " " " McBurney's method.....	
	2 Chronic, Removal of Appendix.....	
	4 " " " McBurney's method .....	
	1 Abscess secondary to Appendix operation, Incision and drainage.....	
	1 Adhesions secondary to Appendix operation.	
	1 " Intestinal obstruction.....	1
	1 Recurrent with Nephroptosis.....	
1898..	3 Acute (during attack), McBurney's operation (Intermuscular Appendectomy..	
	1 Acute (during attack), Appendectomy and Drainage.....	1
	24 Acute Abscess, Appendectomy and Drainage.....	2
	6 Acute Abscess (appendix organized), Appendectomy and Drainage.....	
	10 Acute Gangrenous, Septic Peritonitis, Appendectomy and Drainage.....	6

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1898.. (Cont.)	2 Acute Abscess, Progressive Peritonitis, Appendicectomy and Drainage.....	
	3 Acute Abscess, Sepsis, Appendicectomy and Drainage.....	3
	3 Abscess, secondary to Appendix operation, Appendicectomy and Drainage.....	
	1 Recurrent during attack, Appendicectomy Intermuscular.....	
	32 Recurrent, interval, Appendicectomy Intermuscular.....	1
	6 Recurrent, interval, Appendicectomy.....	1
	6 " and Abscess, Appendicectomy and Drainage .....	
	4 Recurrent, and Abscess, Appendicectomy and Drainage (Appendix disorganized)	1
	1 Recurrent, with Progressive Peritonitis...	1
	1 Chronic Abscess.....	
	1 Recurrent and Endometritis.....	
	1 Abdominal Colic (Appendicitis?) Exploratory Coeleotomy.....	
1899..	1 Acute (during attack), Appendicectomy (Intermuscular).....	
	4 Acute, Appendicectomy Drainage... ..	
	35 with Abscess, " " .....	5
	1 " " and Progressive Focal Peritonitis, Appendicectomy Drainage....	
	1 with General Peritonitis, Miscarriage, Septicaemia.....	1
	8 Acute Gangrenous, General Septic Peritonitis .....	4
	1 Secondary Subphrenic Abscess.....	
	1 Sinus, following Appendix Abscess.....	
	1 Suppurative Mesenteric Odenitis.....	1
	1 Multiple Sinuses, Abdominal Wall, following Acute Appendiceal Abscess.....	1
		(Fecal Fistula.) (Died Inanition.)
	57 Recurrent, Appendicectomy Intermuscular	
	6 Recurrent, (Interval).....	



TABLE VIII—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1901..	40 Recurrent, Appendicectomy (Intermuscular)	1 (Delirium Tremens.)
	2 Catarrhal, " "	
	8 Gangrenous, " Drainage-Irrigation	2
	8 " " " "	
	General Peritonitis.....	2
	43 Acute, with Abscess, Appendicectomy- Drainage-Irrigation.....	5
	2 Acute, with General Peritonitis, Appen- dicectomy-Drainage-Irrigation.....	1
	1 Chronic, with Tubercular Peritonitis, Ap- pendicectomy (not drained) Irrigation.	
	1 Chronic, with Floating Kidney.....	
	5 Chronic, Appendicectomy (Intermuscular)	
	1 " with Retroverted Uterus, Appen- dicectomy (Intermuscular).....	
1902..	20 Acute Catarrhal Appendicectomy.....	
	10 " with Spreading Peritonitis Appen- dicectomy no Drainage.....	1
	7 Acute with Spreading Peritonitis Appen- dicectomy Drainage.....	5
	53 Acute with Abscess Appendicectomy Drainage.....	6
	7 Gangrenous and General Peritonitis Ap- pendicectomy Drainage.....	4
	35 Chronic Appendicectomy.....	
	37 Recurring.....	
	4 Chronic with Ovarian cyst.....	
	1 " " Fistula.....	
	1 " " Femoral Hernia.....	
	1 " " Retroversion of Uterus.....	
	1 Adhesions about Appendix.....	
1903..	45 Acute, Appendicectomy.....	0
	46 " with Abscess, Appendicectomy and Drainage.....	0
	1 Appendicular Colic.....	
	18 Acute with Spreading Peritonitis Appen- dicectomy and Drainage.....	8

TABLE VIII—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1903.. (Cont.)	6 Acute with Spreading Peritonitis Closed and Drainage.....	1
	48 Chronic .....	
	4 Gangrenous with Spreading Peritonitis...	2
	1 With Strangulated femoral Hernia, Ap- pendicectomy and Bassini's Operation..	
	1 Chronic with Tuberculosis of Mesenteric Lymph Nodes.....	
	1 Appendicostomy .....	
	3 Acute with Acute Salpingitis .....	
	1 Retrocecal Abscess after Appendicectomy.	
	1 Sinus following Appendicectomy; Lapara- tomy and Resection 8 inches of Caecum and Ilium.....	
<p>Dr. Chas. McBurney appointed April 1, 1888, to succeed after resignation of Dr. Henry B. Sands, Dr. McBurney, in 1900 report resigned.</p>		
1904..	45 Acute Appendicectomy. ....	1
	35 " with Abscess Appendicectomy and Drainage .....	
	9 Acute with Spreading Peritonitis Appen- dicectomy and Drainage.....	1
	21 Acute with Spreading Peritonitis Appen- dicectomy no Drainage.....	
	9 Acute with General Peritonitis Appendi- ectomy and Drainage.....	6
	92 Chronic.....	1
	4 Acute with Abscess Drainage, Appendix not Removed.....	
	1 Sinus following Appendicostomy, Appen- dicectomy .....	
	1 Perityphilitis and Inverted Appendix Ap- pendicectomy and Colotomy.....	
	1 Chronic with Actinomyces of Caecum, Resection of Caecum.....	1
	1 Fecal Fistula Enterorrhaphy.....	
	1 Acute with Intestinal Obstruction, Appen- dicectomy and Enterolysis.....	

TABLE VIII—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1905..	40 Acute Appendicectomy .....	1
	38 " with Abscess Appendicectomy and Drainage .....	1
	1 Acute with Abscess and Spreading Peritonitis Appendicectomy and Drainage..	
	8 Acute with Spreading Peritonitis Appendicectomy and Drainage.....	1
	14 Acute with General Peritonitis Appendicectomy and Drainage.....	7
	65 Chronic Appendicectomy.....	2
	6 Gangrenous Appendicectomy and Drainage	
	1 " with General Peritonitis (No Memorandum .....	1
	35 Catarrhal Appendicectomy.....	1
	1 Tuberculous Exploratory Laparotomy....	
	1 Appendicitis with Salpingitis, Appendicectomy and Salpingectomy.....	
	1 Appendicitis with Pelvic Abscess Perineal Drainage .....	
	1 Appendicitis with Tubercular Peritonitis, Appendicectomy.....	
	1 Abscess of Appendix, secondary, Kammer's Incision and Drainage.....	
	1 Abscess of Appendix, Old Appendicectomy and Drainage.....	1
	3 Abscess of Appendix, Median Incision and Drainage .....	
	1 Hydrops of Appendix, Appendicectomy..	
	1 Pain of Appendiceal Stump Laparotomy and Incision of Stump.....	
1906..	1 Appendicular Colic Appendicectomy....	
	2 Interval Appendicectomy.....	
	74 Chronic " .....	1
	51 Acute " .....	
	49 " with Abscess Appendicectomy and Drainage .....	2
	2 Abscess secondary to Appendicectomy Incision and Drainage....	
	4 Appendicitis with Spreading Peritonitis, Appendicectomy.....	2



TABLE VIII—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1906.. (Cont.)	<p>6 Appendicitis with Spreading Peritonitis, Appendicectomy and Drainage.....</p> <p>1 Appendicitis with Spreading Peritonitis, Subphrenic Abscess, Empyema Appendicectomy and Drainage Incision and Drainage of Abscess, Resection of Rib.</p> <p>3 Appendicitis with General Peritonitis, Appendicectomy .....</p> <p>6 Appendicitis with General Peritonitis Appendicectomy and Drainage.....</p> <p>1 Appendicitis with Adenocarcinoma of Peritoneum Appendicectomy.....</p>	2

TABLE IX.  
ST. BARTHOLOMEW'S HOSPITAL OPERATIONS.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.					DIED.	
1888..	9	Abdominal Sections for Acute Peritonitis.....					8
1889..	1	Excision of Vermiform Appendix.....					0
1890..	5	Abdominal Sections for Appendix and Peritonitis.....					3
1891..	1	"	"	"	Typhlitis.....	1	
1892..	4	"	"	"	".....		
1893..	4	"	"	"	Appendicitis.....	3	
	6	"	"	"	Suppurative Peritonitis.....	4	
1894..	6	"	"	"	Appendicitis.....	4	
1895..	10	"	"	"	".....	3	
1896..	7	Acute with Suppuration, Appendix removed, Irrigation, Drainage.....					4
	3	"	"	"	" not removed, Irrigation. ....	3	
	13	"	"	"	" not removed, limited incision through per. adhesions.....	3	
	2	"	"	"	" not searched for, no Irrigation, simple Drainage.....	2	
	2	"	"	"	" removed, limited Incision through per adhesions.....		
	6	Chronic with Suppuration, Appendix not searched for, limited incision through per. adhesions.....					
	8	Chronic Recurrent without Abscess, Appendix removed.					
	1	Acute with Strangulation of Intestines by Adhesions, Appendix removed.....					1
	1	Old Appendicitis with Sinuses, removal of Appendix and foreign body.....					1

TABLE IX—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.				DIED.
1897..	1	Acute without External Suppuration,	Exploratory Incision.		
	2	Acute with Suppuration,	Appendicectomy, Irrigation,		
			Drainage.....	1	
	5	" " "	Appendicectomy, Irrigation,		
			no search for Appendix,	5	
	1	" " "	no search for Appendix, sim-		
			ply Drainage, no Irrigation	1	
	1	" " "	Local Sponging, no search		
			for Appendix.....		
	13	" " "	Limited Incision through per-		
			adhesions, Appendix not		
			removed.....	2	
	2	Chronic with Abscess, Appendix removed,	Local Spong-		
			ing, Drainage.....		
	1	" " "	Limited Incision through adhesion,		
			no search for Appendix.		
	13	Chronic Recurrent without External Suppuration,	Append-		
			ix removed.		
1898..	3	Acute without External pus-Exploratory Incision.....		1	
	3	" " " " " Appendicectomy-Irrigation-			
			Drainage.....	3	
	2	" " " " " Irrigation, no search for			
			Appendix.....	2	
	4	" " " " " no Irrigation, no search for			
			Appendix, simply Drainage	2	
	4	" " " " " Appendix removed.....		0	
	16	" " " " " " not removed, limited			
			Incision through Peritoneal		
			Adhesions.....		
	5	Chronic with Abscess, Appendix removed.....		1	
	21	" without External Suppuration, Appendix removed			
	1	" Concretion removed.....			
1899..	1	Acute without External Suppuration,	Exploratory Incision		
	2	" " " " " Appendix removed..			
	3	" with Suppuration, Appendix removed, Drainage...		2	
	24	" " " " " Appendix not searched for Drainage.		9	

TABLE IX.—Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1899.. (Cont.)	3 Acute Gangrenous, Appendicectomy, Drainage.....	1
	1 " " Peritoneal cavity washed out, but no search for Appendix.....	1
	1 " " no washing, Simply Drainage, Appendix not searched for. ....	1
	2 Chronic with Abscess, Appendix removed.....	1
	4 " " " no search for Appendix.....	1
	36 " without External Suppuration, Appendix removed	
	1 " " " limited incision through adhesions, no removal of Appendix....	
	1 Old Appendicitis, Removal of Stitch.....	
	1 Removal of Appendix for Hernia.....	
1900..	1 Acute without External Suppuration, Exploratory incision	1
	5 " " " " Appendix removed..	
	9 Acute with suppuration, Drainage, Appendix removed...	5
	17 " " " " but no search for Appendix.....	2
	5 Acute Gangrenous, Drainage and Appendix removed....	3
	1 " " Appendix not searched for.....	1
	8 Chronic with Abscess, Appendix removed.....	
	5 " " " not " ".....	1
	1 " Recurrent without External Suppuration, Exploratory incision.....	
	36 " Recurrent without Appendix removed.....	
	1 " " " " not " limited incision through adhesions.....	
	1 removal of Appendix for Hernia.....	
1901..	21 Acute without External Suppuration, Appendix removed.	
	40 " " " " " ".....	1
	1 Acute Gangrenous, Drainage, no search for Appendix....	1
	10 " " " and Appendix removed....	6
	11 " with suppuration " " " ".....	5
	34 " " " " but no search for Appendix..	11
	2 Chronic with suppuration, Appendix removed.....	
	3 " " " Drainage, but no search for Appendix.....	1
1902..	1 Incision of Actinomycosis.....	
	1 Removal of Appendix for Carcinoma.....	

TABLE IX. — Continued.

YEAR.	CASES OF APPENDICITIS AND NATURE OF OPERATIONS.	DIED.
1902.. (Cont.)	1 Removal of Appendix for Tubercle.....	
	16 Acute without External Suppuration, Appendix removed.	1
	2 " " " " Exploratory incision.	
	93 Chronic, Removal of Appendix.....	2
	4 Acute Gangrenous, Drainage, no search for Appendix..	4
	9 " " Appendix removed and Drainage....	7
	14 " with Suppuration, Appendix removed .....	4
	15 " " Drainage, no search for Appendix	1
	2 Chronic with Abscess, Appendix removed, Drainage.....	
	10 " " Drainage, no search for Appendix.	
	6 Old Appendicitis, Appendix removed.. .....	
1903..	21 Acute without External Suppuration, Free Incision and Appendix removed.....	0
	75 Chronic relapsing without Suppuration (External) Ap- pendix removed.....	2
	1 Acute Gangrenous, Drainage, no washing or search for Appendix.....	1
	13 Acute Gangrenous, Appendix removed.....	9
	10 Acute with Abscess, Appendix removed, Drainage.....	2
	24 " " Incision and Drainage, but no search for Appendix.....	6
	3 Chronic " Incision, Appendix removed.....	
	10 " " no search for Appendix.....	
	1 Old Appendicitis, Removal of Appendix.....	
	6 " " Incision Abscess.....	1
1905..	21 Acute Gangrenous, Removal of Appendix, Drainage.....	14
	36 Acute with Abscess, Free incision and Drainage.....	2
	21 " " Suppuration, Removal of Appendix.....	4
	42 " without " " " " .....	0
	69 Chronic, relapsing or quiescent, Removal of Appendix...	0
	2 Appendicectomy for abdominal pain.....	1

TABLE X.

Showing largest and most favorable statistics of individual operators since 1900, with a further list of chronic and interval operations.

PERIOD	ACUTE CASES.			CHRONIC CASES.			TOTAL.	
	% Operated	Number	Deaths	%	Number	Deaths	Number	%
Wm. J. Mayo, .....	99	1,957	47	2.4	2,287	2	4,784	49 1.
St. Mary's Hospital, Rochester, Minn. . .								
John B. Deaver, . . .	94	1,796	181	10.5	1,999	4	3,288	223 6.7
German Hospital, Philadelphia, Pa. . .							Includ- ing 1901	
..... Except 1901*							2,175	79 3.6
A. J. Ochsner, .....	99	1,388	74	5.3	787	5		
Augustana Hospital, Chicago, Ill. ....							10,247	351 3.4
Prof. Riedel (Jena) .....		5,141	302	5.8	4,173	11		
Munch. Med. Wch. Nov. 26 '07. ....		1,388	74	5.3			1,388	74 5.3
Korte. ....					600	6		
Roux (of Lausanne) .....					1,220	2		1.
Kümmel. ....					700	4		0.16
Sonnenburg. ....					570	6		0.57
Riese. ....					78	2		1.
Arnsperger. ....					150	0		2.5
Leiblein. ....					83	0		0.0
Eiselberg. ....					254	0		0.0
St. Luke's Hospital, N. Y. ....					499	4		0.8
Mass. Genl., Boston. ....					1,065	10		1.
Eastern Me. Genl., Bangor, Me. ....					866	7		0.8
Med. Chir. Tr. ....					540	3		0.5
London Hospital, London, Eng. ....					10,798	55		0.5
..... Lond. LXXXVIII P. 329								

\* 333 cases with 38 deaths in 1901 not divided in report into acute and chronic.

† Verhandlung der Deutschen Gesellschaft für Chirurgie 1905 pp. 24 and 299.

TABLE XI.

Showing fatality and percentage of cases operated in the U. S. Public Services.

	YEARS.	CASES.	OPERATIONS FOR APPENDICITIS	DIED.	TOTAL ALL OPER- ATIONS.
Navy .....	1901-1907	785	478 (60%)	12 (1.5%)	6,981
Marine Hospital Service.....	1895-1907	647	295 (45%)	55 (8.5%)	15,964
Army .....	1898-1906	1,915	57% for years 1905-6	93 (4.8%)	
			3,347	About 50%	160 (4.7%)

Mean Annual 65,000 plus.

Total number of cases of Appendicitis treated in U. S. Naval Hospitals  
from 1901 to 1907, inclusive.\*

YEAR.	CASES.	OPERATIONS FOR APPENDICITIS.	DIED.	TOTAL OPERATIONS FOR ALL CAUSES.
1901.....	51	25 (1 died.)	2	345
1902.....	72	42	3	662
1903.....	88	38 (1 died.)	2	753
1904.....	99	67 (1 died.)	3	1,022
1905.....	141	110	2	1,533
1906.....	157	93	0	1,502
1907... ..	177	103	0	1,164 (list incomplete.)
	785	478 (60%)	12 (1.5%)	6,981

\*Furnished through the kindness of the Surgeon General.

TABLE XI-- Continued.

ANNUAL REPORT OF  
PUBLIC HEALTH AND MARINE HOSPITAL SERVICE.

YEAR.	CASES.	DIED.	OPERATED FOR APPENDICITIS.	TOTAL OPERATIONS.
1895.....	6	3	4 (2 died.)	998
1897.....	34	4	0	903
1898.....	39	5	18 (2 died.)	1,121
1899.....	29	6	12 (2 died.)	1,110
1900.....	47	3	15 (2 died.)	1,372
1901.....	50	7	17 (3 died.)	1,385
1902.....	38	5	0	1,178
1903.....	48	4	43 (5 died.)	1,335
1904.....	80	8	33 (3 died.)	1,529
1905.....	72	5	32 (3 died.)	1,564
1906.....	110	4	58 (1 died.)	1,648
1907.....	94	1	63	1,821
1900 and after.....	539	37	261 (48%)	
Before 1900.....	108	18	34 (31%)	
	647	55 (8.5%)	295 (45%)	15,964

REPORTS OF THE  
SURGEON GENERAL OF THE U. S. ARMY.

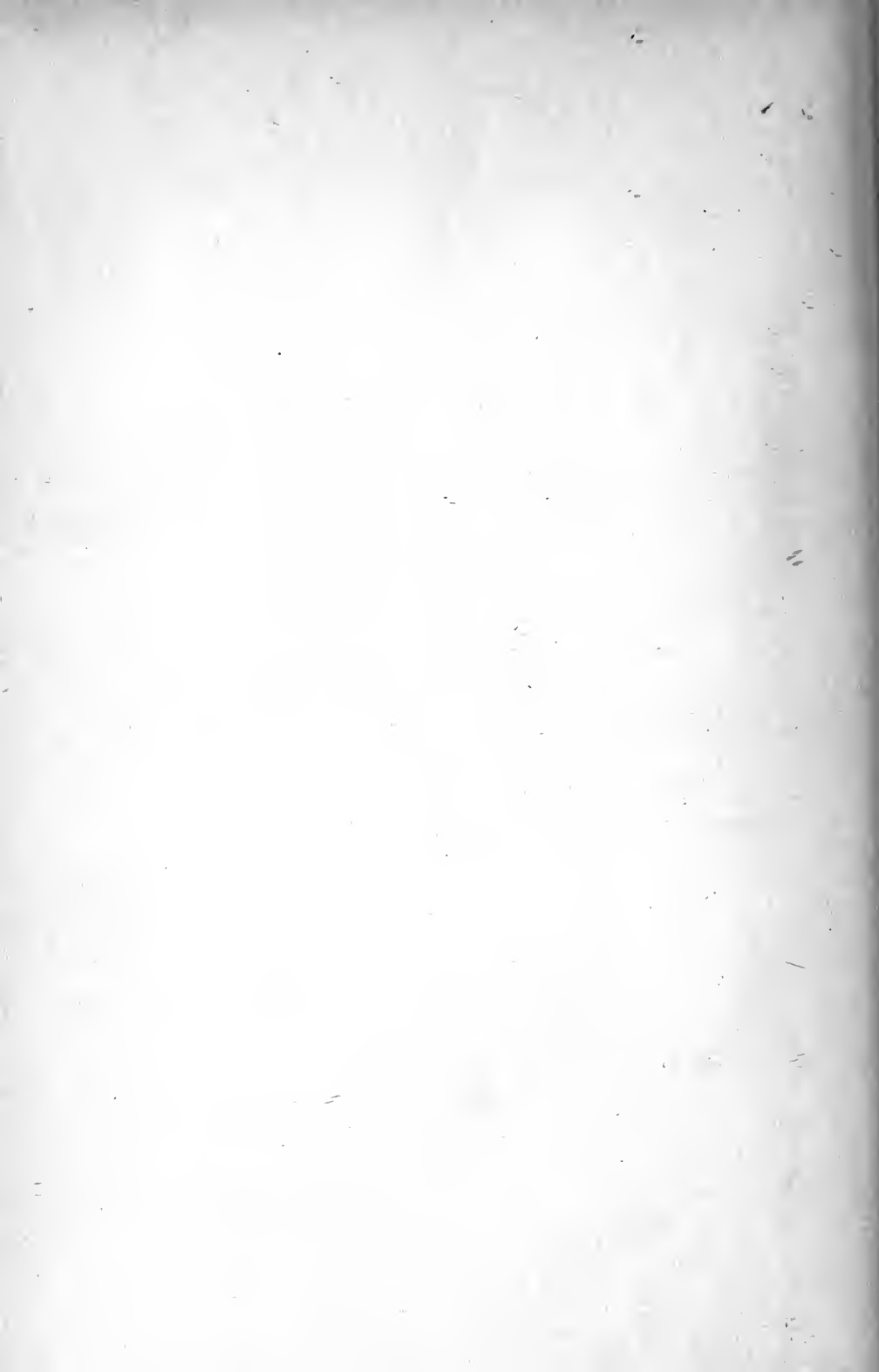
1898-1904.....	1,394	71	.....	.....
1905.....	230	12	120 (9 died.)	3,004
1906.....	291	10	183 (8 died.)	3,189
	1,915	93 (4.8%)		



TABLE XII.

## SUMMARY.

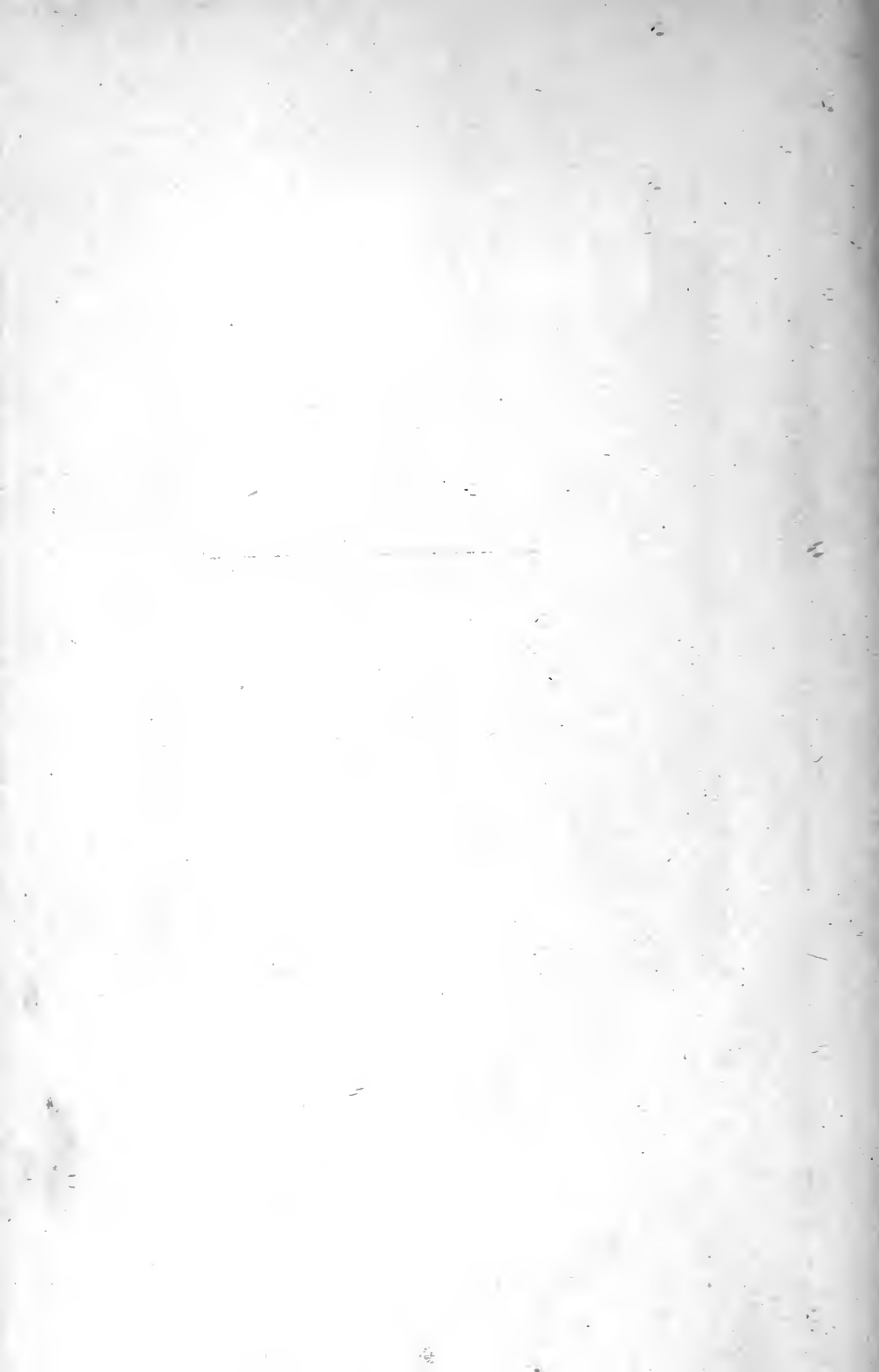
Source.	Years.	Total Cases.	Percentage Operated.	Percentage Fatality.	UNOPERATED.	
					Cases.	% Fatality.
Present Essay.	1870-90.	1,916 (Died, 128.)	Negligible.	6.6	1,919	6.6
Sahli. . . . .	1890-95.	7,213 (Died, 692.)	6.5	9.7	6,740	8.8
Stricker. . . . .	1880-00.	6,296 (Died, 207.)	3.7	4.2	6,061	3.3
Stricker. . . . .	1900-05.	4,498 (Died, 142.)	14	3.1	3,869	1.1
Present Essay. (Charité, Berlin.)	1905-05.	971 (Died, 66.)	31. (Approximately.)	6.7		
Present Essay.	1890-07.	34,654 (Died, 2832.)	85.	8.1		
Present Essay.	1890-07.	15,003 (Died, 1192.)	Probably more than 70.	7.9		
Present Essay. (Public Services.)	1895 to 1907. . . .	3,347 (Died, 160.)	Over 50.	4.7		











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